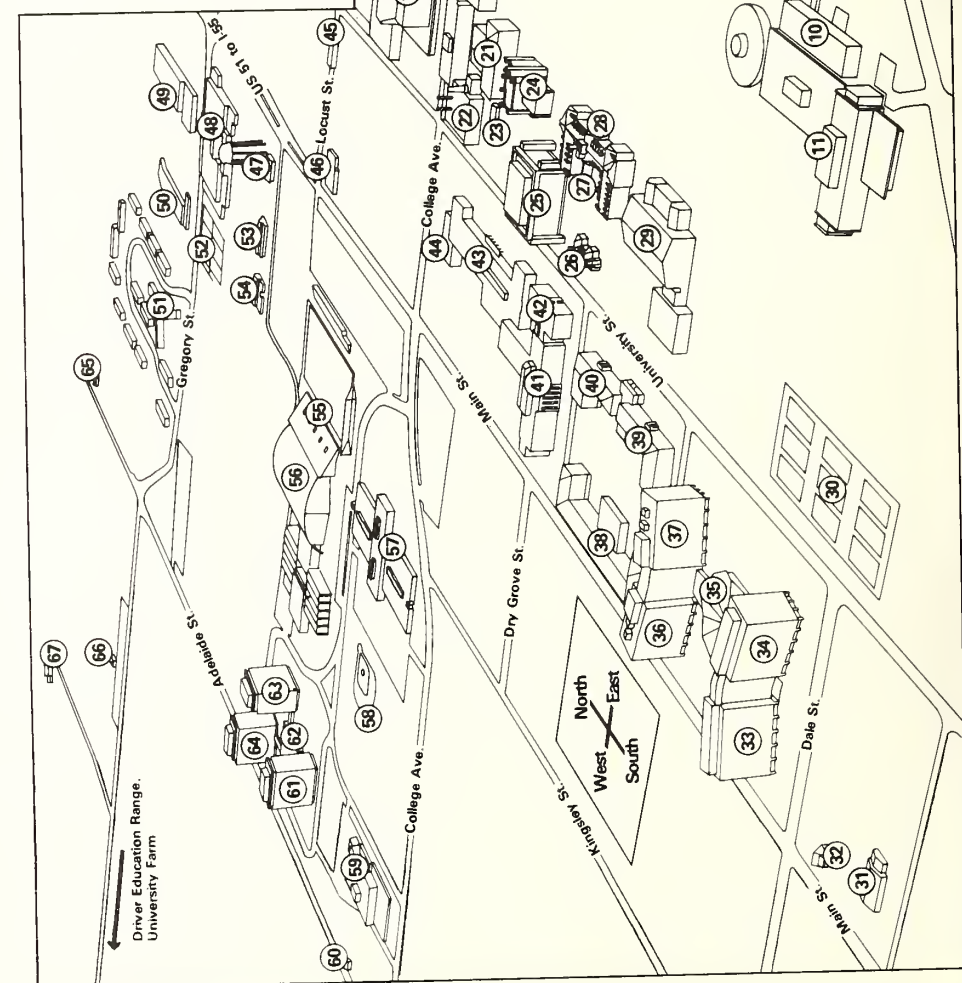


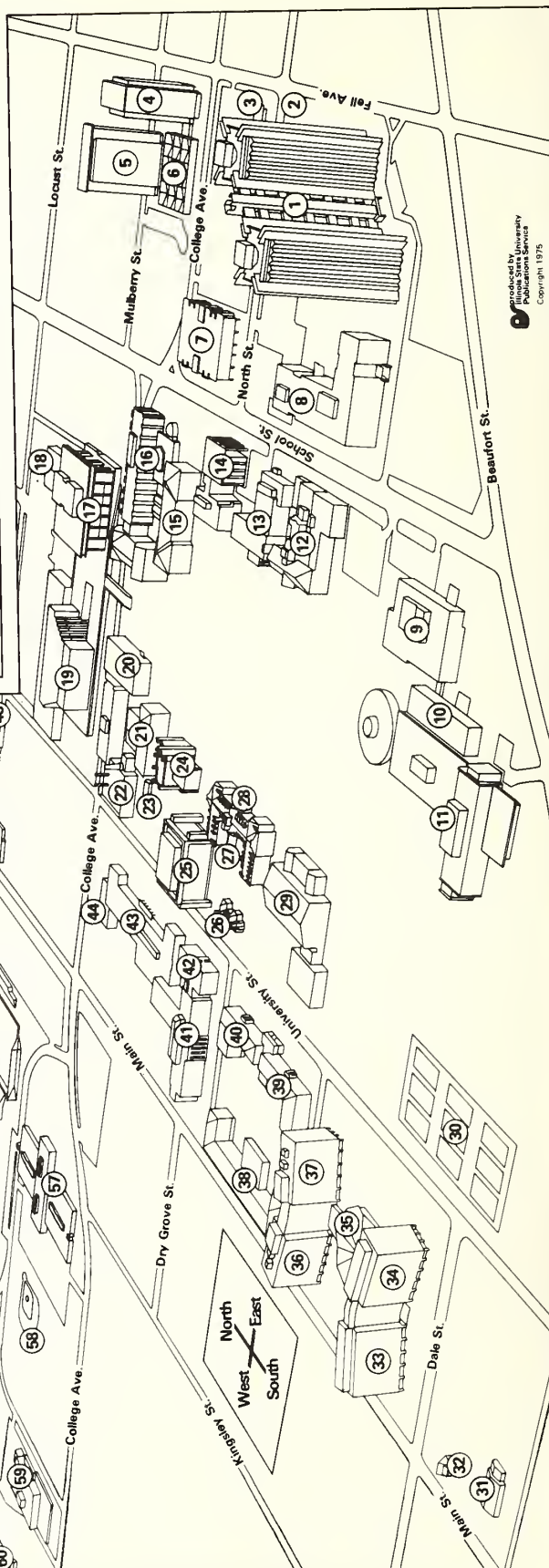
UNDERGRADUATE CATALOG



The University




- Atkin Hall (33)
 Architecture Engineering (32)
 Bowling Billiards Center (18)
 Campus Recreation (46)
 Capen Auditorium (21)
 Cardinal Court Physical Plant (50)
 Centennial East (9)
 Centennial West (10)
 Center for the Visual Arts (11)
 Center for the Visual Arts Gallery (11)
 Cook Hall (34)
 Cooper Health Service (42)
 DeGarmo Hall (25)
 Dunn Hall (33)
 Environmental Administration Annex* (3)
 Edwards Hall (21)
 Evestone School Museum (60)
 Fairchild Hall (41)
 Fenley Center (35)
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 Fenley Hall (16)
 General Services Building (59)
 Glass Laboratory (65)
 Green Food Service Building (49)
 Hamilton Hall (37)
 Hancock Stadium (55)
 Haystack Commons (44)
 Haystack Hall (63)
 Heating Plant (22)
 Hewitt Hall (4)
 Horton Field House (56)
 Johnson Commons (14)
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 Judging Pavilion (54)
 Julian Hall (7)
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 Vredette (23)
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 Walker Hall (38)
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 Westcott Commons (2)
 Westcott Theatre (9)
 Whitten Hall (36)
 Wilkins Hall (61)
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Illinois State University is an Equal Opportunity/Affirmative Action institution.
All concerns relating to Equal Opportunity or Affirmative Action may be addressed to the Affirmative Action Office, Hovey Hall 207 (309/436-7657). The Coordinator for Title IX and the Handicapped Regulations is Dr. Dorothy Carrington.

UNDERGRADUATE CATALOG





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Using the Catalog

This *Undergraduate Catalog* contains important information about admissions, costs, student financial aid, academic policies and opportunities, and student services and activities. Additional information is provided in other University publications available on campus. A wide variety of undergraduate programs (majors and minors) in more than 50 separate fields of study are described, and students should consult the appropriate departmental section of the

Catalog for a description of the requirements of each of these programs as well as general requirements for graduation. Undergraduate courses offered by the 31 departments of the University are also described in this Catalog, although students should consult the *Class Schedule* published each semester for specific information about courses scheduled that semester. A separate *Graduate Catalog* describes graduate programs and courses.

Academic Programs and Courses Index

Academic Departments and Programs (Majors—Minors)	Computer Code	Pages	
		Program Descriptions	Course Descriptions
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Agribusiness	AGB	45	
Agriculture	AGR	45	45
Allied Health Professions	AHP	48	49
Anthropology	ANT	105	106
Applied Computer Science	ACS	39	40
Art	ART	133	133
Arts and Sciences (Contract Major)	A&S	67	
Behaviorally and Learning Disordered (Sequence in Special Education)	—	125	
Bilingual Education (Elementary Education)	—	120	
Biological Sciences	BSC	68	68
Business Administration	BUA	115	
Business Education and Administrative Services	BEA	112	114
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Computer Science, Applied	ACS	39	40
Consumer Education (Business Education)	—	113	
Contract Major—Minor	CON	41	
Corrections	COR	50	50
Curriculum and Instruction	C&I	119	121
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Distributive Education (Business Education)	DED	113	
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Environmental Health	ENH	48	
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Home Economics	HEC	59	59
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Industrial Technology	IT	61	62
Information Sciences	INF	88	89
Instructional Media	—	88	
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Journalism Education	—	89	
Junior High School Education	JHS	121	
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Academic Departments and Programs (Majors—Minors)	Computer Code	Pages	
		Program Descriptions	Course Descriptions
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Mentally Retarded-Trainable (Sequence in Special Education)	—	125	
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Office Administration (Business Education)	OAD	113	
Philosophy	PHI	97	97
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Recreation and Park Administration	RAP	53	58
Russian Studies	RUS	78	81
Secretarial Education (Business Education)	SEC	113	
Severely and Profoundly Handicapped (Sequence in Special Education)	—	125	
Social Sciences	SSC	67	
Sociology-Anthropology	SOA	105	105
Social Work	SWK	105	107
Sociology	SOC	105	105
Spanish	SPA	78	81
Special Education	SED	125	126
Speech Communication	SP	89	
Speech Pathology-Audiology	PAS	108	108
Theatre	THE	141	141
Visually Handicapped (Sequence in Special Education)	—	125	

1978

July
SUN MON TUE WED THU FRI SAT
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1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29

October						
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May						
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August
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13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31

November

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June
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September
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December						
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1979

March
SUN MON TUE WED THU FRI SAT
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11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31

June
SUN MON TUE WED THU FRI SAT
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10 11 12 13 14 15 16
17 18 19 20 21 22 23
23 25 26 27 28 29 30

January
SUN MON TUE WED THU FRI SAT
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7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

April
SUN MON TUE WED THU FRI SAT
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8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

July
SUN MON TUE WED THU FRI SAT
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8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

February
SUN MON TUE WED THU FRI SAT
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18 19 20 21 22 23 24
25 26 27 28

May						
SUN	MON	TUE	WED	THU	FRI	SAT
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6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

August
SUN MON TUE WED THU FRI SAT
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1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 31

University Calendar, 1978-79

1978 Summer Sessions

May 15	Opening of Pre session
June 19	Opening of and registration for eight-week summer session
June 23	Last day for late registration and course changes
July 4	Independence Day holiday
July 7	Last day for undergraduate students to apply for graduation at end of eight-week session
July 28	Last day to drop a course
August 10-11	Evaluation and review period
August 11	Eight-week session ends

1978 First Semester

August 21-22	Registration. See <i>Class Schedule</i> booklet for specific registration schedule
August 21	Registration for late afternoon, evening, and Saturday classes. See <i>Class Schedule</i> booklet for specific registration schedule
August 23	Classes begin
August 29	Last day for late registration and course changes
September 4	Labor Day holiday
September 15	Last day for undergraduate students to apply and pay fee for graduation in December
October 7	Homecoming
October 14	Last day of first nine-week classes. Mid-semester break begins at noon
October 18	Classes resume, 8 a.m. Second nine-week classes begin
November 21	Thanksgiving vacation begins at end of regularly scheduled classes
November 27	Classes resume, 8 a.m.
December 13	Reading Day
December 14-20	Evaluation and Review period

1979 Second Semester

January 11-12	Registration. See <i>Class Schedule</i> booklet for specific registration schedule
January 11	Registration for late afternoon, evening, and Saturday classes. See <i>Class Schedule</i> booklet for specific registration schedule
January 15	Classes begin
January 19	Last day for late registration and course changes
February 2	Last day for undergraduate students to apply and pay fee for graduation in May
March 6	Last day of first nine-week classes
March 7	Second nine-week classes begin
March 10	Spring vacation begins at noon
March 19	Classes resume, 8 a.m.
May 4	Reading Day
May 5-11	Evaluation and Review period
May 12	One-hundred-twentieth Annual Commencement

1979 Summer Sessions

May 14 - June 15	Pre session
June 18 - August 10	Eight-week session
July 4	Holiday



Illinois State University

Board of Regents

The Board of Regents is the governing board for Illinois State University, Northern Illinois and Sangamon State University. Members of the Board are:

David E. Murray, Sterling, *Chairperson* (1975-1981)
 Michael J. Brady, Chicago (1973-1979)
 Carol Burns, Chicago (1977-1983)
 Dan M. Martin, Chicago, *Vice Chairperson* (1975-1981)
 James M. Patterson, Chicago (1975-1981)
 Guy V. Prisco, Aurora (1974-1979)
 Charles B. Shuman, Sullivan (1971-1983)
 Mrs. Eleanor R. Suggs, Phoenix (1973-1979)
 Harry L. Wellbank, Crystal Lake (1977-1983)

Student Members

Kimberly A. Theobald, Normal (Illinois State University)
 Rich Resnick, DeKalb, (Northern Illinois University)
 Jill Welander, Springfield (Sangamon State University)

Executive Director

Franklin G. Matsler, Springfield

University Administrative Officers

President

Vice President and Provost

Associate Provost and Dean of

Undergraduate Instruction

Dean of the Graduate School

Dean, College of Applied Science and
Technology

Dean, College of Arts and Sciences

Dean, College of Business

Dean, College of Education

Dean, College of Fine Arts

Dean, College of Continuing Education and
Public Service

Vice President and Dean of Student Affairs

Vice President for Business and Finance

Secretary of the University

Lloyd I. Watkins

James M. Horner

Stanley G. Rives

Charles A. White

Jack E. Razor

C. Edward Streeter

E. Frank Harrison

Robert A. Burnham

Charles W. Bolen

Harold D. Crouse

Neal R. Gamsky

Francis B. Belshe

Charles E. Morris

University Information

University Missions

A free society depends upon an enlightened citizenry, capable of making wise and responsible choices. Illinois State University is committed to serve the citizens of Illinois and the nation through the communication of knowledge (teaching), creation of new knowledge (research), and application of knowledge (service). Illinois State strives to provide students with the finest undergraduate education available in Illinois and to provide graduate programs which complement that primary effort. In meeting these commitments, the University recognizes its responsibilities to: Admit and retain qualified and enterprising students; Secure and retain highly qualified and dedicated faculty and staff; Provide an intellectual and social climate conducive to the fullest development of students; Maintain high academic and professional standards for students, faculty, and staff of the University; Provide classrooms, libraries, laboratories, and other facilities necessary to quality bachelor's, master's, and doctoral degree academic programs; Encourage students and faculty to contribute to new understandings through research activities; and Provide community and public service programs which are responsive to the needs of society and are consistent with the responsibilities and mission of the University.

Brief History

Founded in 1857, as the first Illinois public university, Illinois State is the oldest and one of the largest universities in Illinois. Abraham Lincoln drafted the documents establishing Illinois State Normal University. After more than a century as a single-purpose teacher education institution, the decade of the 1960s brought several significant changes for Illinois State including the expansion of purpose to offer liberal arts as well as teacher education programs, introduction of doctoral level programs, governance by the Board of Regents, and renaming of the institution as Illinois State University.

Illinois State enrolls more than 21,000 students (over 19,000 were on-campus students in the fall of 1977, with the remainder enrolled in off-campus courses) and has a faculty of about 1,300. Another 8,000 students enroll in the summer sessions. Students are primarily Illinois residents but most other states and 40 other nations are represented in the student body.

Location

Illinois State University, located in the twin cities of Bloomington-Normal with a population of approximately 80,000, is easily accessible by car, bus, train or plane. Amtrak offers train service from and to Chicago, Milwaukee, St. Louis and points along the way. Various bus lines provide service to all points in the State. Ozark and Britt Airlines have daily passenger service to Chicago and Ozark also has flights to St. Louis. Bloomington-Normal is reached by perhaps the best highway system in the State with the cities serving as the hub for Interstates 74 and 55 and U.S. 51, the major North-South route in Illinois.

Bloomington-Normal is a metropolitan community where State Farm Insurance Companies, Illinois Agricultural Association, and General Telephone Company of Illinois have located their home offices. General Electric, Firestone, and other firms have major facilities in the twin cities. Other nearby institutions of higher education are

Illinois Wesleyan University, Eureka College, Lincoln College, Millikin University, Illinois Central College, and the University of Illinois. Illinois State has cooperative arrangements with these institutions.

Campus

The tree-shaded campus of Illinois State University, covering 711 acres, is a study of varying architecture, ranging from the castle-like appearance of Cook Hall to the modernistic dominance of the 28-story twin Watterson Towers residence halls. Major classroom buildings are clustered in a central core, surrounded by a new library and recreational, social, and residence structures. As a result, students have no difficulty in walking to their next classes within the usual 10-minute break period.

There are 55 major buildings on the campus, most of which have been built during the past two decades. The compact nature of the campus also makes it convenient to adjacent downtown Normal and theatres, shops, and restaurants. A hallmark of the University is its spacious central mall, which has trees of nearly every variety which will grow in Illinois, some of which were planted by Jesse Fell, one of the founders of Illinois State, in the late 1850's.

In addition to the major building clusters, there are the 18-hole University golf course, a 310-acre University farm, recreational fields, and other open areas for student and public relaxation. For use by the University and surrounding Central Illinois community, Illinois State also has a 3,500-seat Auditorium, a University Union, and a recreation center for bowling and related activities. Athletics are centered in the 8,500-seat Horton Field House and Hancock Stadium, with the first all-weather playing surface in the State.

Residence structures include high rise buildings of 28, 18, 12 and 10-story heights, as well as more traditional halls of only a few stories. There are also family apartments at Cardinal Court and Shelbourne Drive.

Culture and the arts play an integral part in the daily life of the University community, with such facilities as the Ewing Museum of Nations in Bloomington, the Adlai E. Stevenson Memorial Room, Funk Gem and Mineral Museum, University Museum of General History, Eyestone One-Room School House, and the Hudelson Museum of Agriculture. Art galleries may be found in the Center for the Visual Arts, Union, and Hovey Hall.

Collegiate Organization

Academic programs and courses are offered in 31 academic departments organized into the five Colleges of Applied Science and Technology, Arts and Sciences, Business, Education, and Fine Arts. Undergraduate academic program and course offerings are provided in the Catalog according to the collegiate and departmental organization, with University-wide program and course offerings described separately.

The Graduate School offers master's degree programs in most fields in which undergraduate programs are available and doctoral degree programs in Art, Biological Sciences, Curriculum and Instruction, Economics, Educational Administration, English, History, Mathematics, and Special Education. Further information concerning graduate study at Illinois State University is available in the *Graduate Catalog* and in the Graduate School office in Hovey Hall.

The College of Continuing Education and Public Service offers off-campus courses, short courses, workshops, and conferences designed for adults who wish to improve themselves professionally. Information about such offerings

is available in bulletins published by the College each semester. The University makes no distinction between credit earned on or off campus and does not offer correspondence courses.

Academic Senate and Committees

The Academic Senate is the major governance body of the University acting in legislative and advisory roles with regards to University policies concerning faculty and students, academic programs and planning, and University concerns. Based upon the concept of shared governance, the 50-member Senate includes elected representation of 27 faculty and 19 students, plus the 3 Vice Presidents and the President of the University.

Students, faculty, and administrators share in study, development, proposal, and decisions on policy through the Academic Senate and its external committee system. Students are encouraged to share in the experience which participation in committees such as the following can offer:

Academic Planning, Academic Standards, Elections, Entertainment, Library, Facilities Planning, Reinstatement, Parking and Traffic, University Curriculum, University Forum, Bicycle Committees; Council on Teacher Education, Honors Council, Council on University Studies, University Union/Auditorium Board, Student Code Enforcement and Review Board, Athletic Council.

Students also participate as members of College and Department Councils and serve on search and ad hoc committees.

The Academic Senate Office is located in 301 Hovey Hall.

University Library

The new library building, occupied in 1976, provides over 1.5 million individual items and study space for 3,000 students. Each of the six floors of the Library is arranged to provide a variety of study areas—individual carrels, small tables, conference rooms, and lounge chairs—all located adjacent to books, periodicals, and other library materials. The subject-divisional arrangements enables students to find all materials pertaining to the humanities, the social sciences, the sciences, and education-psychology on separate floors. A General College Library on the main floor provides a smaller introductory collection for beginning students.

The collections of the University Library include 741,768 cataloged books and 235,971 U.S. Government publications, a total of 983,739 volumes. Many thousand additional publications are available in miniature in 39,000 reels of microfilm and 773,906 microcards and sheets of microprint. The Map Collection contains 252,375 maps and other cartographic items. A record collection of 15,561 recordings is available.

The Library's membership in the Center for Research Libraries makes the resources of that 3,000,000-volume collection available for members of the faculty and students. A teletypewriter links the Library with more than a hundred research libraries throughout the country, and a courier service brings books from the University of Illinois Library twice weekly.

Accreditation

Illinois State University is fully accredited by the North Central Association Commission on Institutions of Higher

Education and by the National Council for Accreditation of Teacher Education.

Summer Sessions

The University provides credit course work during the 13-week summer period. There is a five-week precession, and a regular session of eight weeks. Courses also are offered off campus. Regular courses under the regular instructors are offered during the summer so that students may take the same type of work as that offered during the first and second semesters. Limited student teaching and internship facilities are available during the eight-week session for those who are qualified. Prospective students may secure the annual *Summer Class Schedule* by writing to the Director of the Summer Session. This catalog lists courses, costs, and other information for the session. Summer session students should refer to the undergraduate and graduate catalogs for academic policies.

Admission to the University Admission Procedures

Students making application for admission may secure the necessary forms by writing to the Office of Admissions and Records, Illinois State University, Normal, Illinois 61761.

After the prospective freshman completes the application form, it should be kept in the pre-addressed envelope, and given to the high school counselor. The counselor then will certify the rank in class and send it, along with any letters of recommendation, directly to the Office of Admissions and Records. The transfer student should complete and return the application to the Office of Admissions and Records, Hovey Hall 201, Illinois State University, Normal, Illinois 61761. In addition, the transfer student will need to submit transcripts of all previous college or university work.

Applications ordinarily will be processed within two weeks of the receipt of the completed application and the student will be notified of his or her status. If an applicant receives a "Certificate of Admission," an application may be made to the Office of Residential Life (Housing) for residence hall space or help in locating off-campus housing. A "Certificate of Admission" does not guarantee space in a residence hall.

An applicant may be admitted at the beginning of either semester or for the summer session. The Office of Admissions and Records, however, cannot guarantee that an application will be processed if it does not arrive at least seven (7) days prior to the opening date of a semester or session.

Students applying for admission as freshmen ordinarily indicate a choice of academic majors. If a choice has not been made by the time applications are submitted, prospective students may indicate that they are undecided about the academic major they intend to enter. A student admitted before choosing a major will be designated a "general student." Before beginning the sophomore year, a general student should make a choice and indicate a major field of study.

The University reserves the right to limit enrollments in programs because of the receipt of more applications than can be accommodated or budget limitations. Students are therefore encouraged to submit admission applications early.

Student Classifications

The University has four classifications for new students entering the University. They are:

1. **Beginning freshman student.** A person who has never registered at any college.
2. **Transfer student.** A person who has, at some time registered at another college, whether or not the student completed any work.
3. **Unclassified undergraduate student.** One who desires to avail himself or herself of instruction offered in any of the departments of the University without undertaking one of the regular academic majors and without becoming a candidate for a degree.
4. **Graduate student.** A person who has completed at least a four-year baccalaureate degree and wishes to do advanced study. He or she may or may not be interested in earning an advanced degree at this University.

The admission requirements for acceptance for each of the classifications listed above are the same regardless of the semester or session for which a student applies. The specific requirements for the undergraduate classifications are listed below. A student with less than 45 semester hours may elect to be a General Student if a decision on a specific major has not been made.

General Admission Requirements

Many factors are considered in evaluating an applicant's preparation and readiness for admission to the University. Among items considered are high school program of studies, rank in class, standardized test scores, recommendations from officials of schools attended, and any previous college work.

Freshmen Tests: All new beginning students, and transfers who present fewer than 15 semester hours of college credit, must present ACT scores, sent directly from the Test Center at Iowa City, Iowa. Non-resident students may submit scores on the Scholastic Aptitude Test (SAT) from the College Entrance Examination Board if that test is the one primarily used in their home states. If Illinois State University had not been specified to receive SAT or ACT scores at the time the test was taken, the applicant must ask the American College Testing Program, Box 168, Iowa City, Iowa, or the Educational Testing Service, Princeton, New Jersey, to send scores directly to the University. ACT or SAT scores listed on high school transcripts are not acceptable. Regardless of class rank, all students are expected to have ACT or SAT scores on file.

Medical Requirements: All students admitted to Illinois State are required to file a Medical History with the Health Service on or prior to registration for 12 or more semester hours or upon entitlement to Health Service by other means. A report of a Medical Examination by a private physician must be filed with the Health Service by all students who plan to participate in University sponsored *intercollegiate* team sports.

Medical History and Examination forms will be mailed to new students by the Health Service. These forms should be completed and returned immediately. If the student does not receive the forms within 30 days of the beginning of the semester, the student is requested to write for them.

All students must submit verification of the results of a TB skin test or chest x-ray accomplished within the previous year with their Medical History.

Specific Admission Requirements

Beginning Freshmen Students: The general requirement for admission is graduation from an approved high school with an academic record and entrance test scores which meet the minimum standards of the University. Prospective students still in high school may apply for admission to the University when they are able to present the basic kinds of academic preparation indicated below. In addition to the applicant's high school rank and ACT or SAT scores, consideration may be given to such important characteristics as intellectual curiosity, leadership potential, character and special abilities.

Prospective students are encouraged to apply after completion of their junior year. Applications are processed until enrollment capacities have been reached.

Illinois residents must rank in the upper half of their graduating classes or have an equivalent score on the composite standard score of the ACT. Out-of-state residents must rank in the upper one-half of their high school classes and have an equivalent score on the composite standard score of the ACT or SAT. Consideration for admission will also be given to a limited number of applicants who possess certain special abilities according to criteria established by the Admissions Committee.

Transfer Students: Students currently-enrolled at another four-year institution usually will be considered for admission to Illinois State University only during the last regular term of their attendance at that institution.

A transfer student must present an overall "C" average for all college work completed, and the final transcript from the last school attended full time must show a statement of "Good Standing." Any additional part-time study will also be examined.

Students currently enrolled at Illinois public community colleges may find it advantageous to complete the associate degree. Illinois State University has a compact with these institutions which provides that each student who earns an associate degree in a baccalaureate-oriented sequence will enter Illinois State with junior standing and with all general education (University Studies) requirements completed.

Registered Nurses may request admission to the University and acceptance of 60 semester hours of transfer credit if they have graduated from an accredited Associate Degree or Diploma Nursing Program. Transfer credit will be granted to those Registered Nurses who have earned a 2.5 grade point average on a 4.0 point scale in their academic preparation prior to admission to the University. Students so admitted must complete University Studies and major requirements which are specified by the University for granting the baccalaureate degree.

After approval for admission, the Office of Admissions and Records will send the student and the student's academic adviser a statement of how the transferred credit may be used to meet curricular requirements at Illinois State University. Transfer credit from two-year institutions is limited to 66 semester hours plus a maximum of 4 semester hours of physical education, plus military credit.

Unclassified Students: An applicant must meet the regular requirements for admission as specified for beginning freshmen or transfer students above, or possess a high school diploma and give evidence of prerequisite background for the course desired.

Students currently enrolled in other colleges or universities and who plan to continue there may attend a summer session at Illinois State University by submitting a statement indicating current attendance in "Good Standing" from the school they are attending.

Readmission of Former Students: Students returning to the University after a lapse of one semester or more apply for readmission through the Office of Admissions and Records. Processing cannot be guaranteed if the application is not received seven (7) days prior to the beginning of registration for the session which they wish to attend. Students must indicate on the application if they have attended another college since last attending Illinois State University.

A former student who has been dropped for poor scholarship from Illinois State University must clear this status with the Assistant to the Dean of Undergraduate Instruction in Hovey Hall before being readmitted. It is advisable for the student in this category to contact the Assistant to the Dean of Undergraduate Instruction several weeks prior to the date of the anticipated return to the University. Readmitted students should consult the section on Catalog and Graduation Requirements in the General Requirements for Graduation Section of the Catalog for information on what catalog they are to use in meeting graduation requirements.

Admission of Undergraduates to the Graduate School: All students interested in graduate study at Illinois State should consult the *Graduate Catalog*. A senior in good standing at Illinois State may begin graduate work during the academic year that person completes the requirements for the bachelor's degree, if he or she applies for and is admitted to the Graduate School. During a semester the student may not register for more graduate credit than the difference between fifteen hours and the number of hours required to complete the bachelor's degree. During the summer session, the student may not register for more graduate credit than the difference between eight hours and the number of hours required to complete the bachelor's degree. It is understood that graduate credit may be received for graduate courses only if requirements for the bachelor's degree are completed during the semester or summer session in which the student begins graduate work. This opportunity is also extended to last semester seniors of other universities who find it possible to take graduate work at this University while completing requirements for the bachelor's degree on their own campuses. Interested students should write to the Dean of the Graduate School for further information.

Orientation and Registration

Summer Preview ISU: Preview ISU is a two-day program offered during the summer for all new freshmen and their parents and a one-day program for transfer students. Invitations to participate are sent to the student and parent during the spring. Preview offers an opportunity for the parent and the student to discuss various dimensions of college life with the faculty, staff, and students of Illinois State. In addition, academic advisement and registration for the first semester are provided.

Orientation and Registration: Orientation Days for students who are not able to attend Preview ISU are provided during the opening week of the fall semester. Similar activities are conducted during the first week of the spring semester for students entering at that time.

Students register for classes each session according to a published *Class Schedule*. Detailed information concerning registration procedures for a given session may be found in the *Class Schedule*.

Costs and Residence

Tuition and Fees

Full-Time Student Costs per Semester

Students who register for 12 or more semester hours are considered full-time students and pay the following tuition and fees, which are **subject to change** by action of the Board of Regents or General Assembly.

	Residents	Non-Residents
Tuition.....	\$250.00	\$750.00
Activity and General Service fee.....	33.50	33.50
Student Health Insurance fee.....	16.50*	16.50*
University Union Fee.....	28.00	28.00
Recreational Facilities fee.....	9.00	9.00
Health Service fee.....	16.50	16.50
	353.50	853.50

* 1977-78 charge with 1978-79 fee dependent upon new contract.

Part-Time Student Costs per Semester

Students who register for fewer than 12 semester hours pay the following tuition and fees, which are **subject to change** by the Board of Regents or General Assembly.

	Residents	Non-Residents
Tuition per semester hour.....	\$ 21.00	\$ 63.00
General Service fee*.....	10.00	10.00
University Union fee.....	14.00	14.00

*Students registered for more than six but fewer than 12 hours may purchase an activity ticket by paying the Activity and General Service fee of \$33.50 instead of the \$10 General Service fee. Payment of the \$33.50 fee by part-time students does not extend the privilege of playing at the golf course for student rates.

Students registered for fewer than 12 hours may also pay the Student Health Service fee within the first ten days of the semester in order to obtain prepaid services. Students who do not prepay the Health Service fee can obtain Health Center care on a fee-for-service basis (individual service charge).

Students taking only audit (courses without credit) are charged tuition at the rate of \$21 per credit hour to a maximum of \$250.

Residents and Non-Residents

A student under 18 years of age is a non-resident if that student's parents are not legal residents of Illinois. A student over 18 years of age is a non-resident if the student is not a legal resident of Illinois at the time of registration. The director of Admissions and Records is responsible for applying out-of-state fees.

Special Fees

Bachelor's Degree Graduation fee	\$10.00
Late Registration and/or Late Payment fee (after scheduled dates).....	10.00
Transcript fee (for each transcript)	1.00

Transcripts are issued only after all student obligations have been met.

Course fees, where required, are identified in the course section of the Catalog. Material charges listed under course offerings in the University catalogs are optional. A student may supply his or her own material and request the instructor in writing to waive the material charge.

Health and Accident Insurance

Each full-time undergraduate student (12 or more semester hours) and each student admitted to the graduate program with 9 or more semester hours is assessed a fee to purchase a health and accident insurance policy. This policy provides for 100 per cent payment of the first \$500 of reasonable inpatient hospital expenses and 80 per cent of such expense above \$500. Outpatient emergencies are covered 100 per cent to a maximum of \$300. Non-emergency outpatient services are generally covered at 80 per cent to a maximum of \$300. It covers 80 per cent of the reasonable expense for a surgeon or certain physician's fees other than those for surgery. There is also an allowance for consultation and ambulance fees. The maximum amount payable for any one accident or sickness is \$10,000. The student's coverage is effective on the date on which University classes begin. Minor changes in coverage may result from the establishment of a new contract with the insurance carrier for 1978-79.

Those students who can produce evidence of equal or better coverage may apply for a refund of the insurance fee by contacting the Office of University Insurance. Application must be submitted within ten class days following the first day of regularly scheduled classes.

Coverage for a student's spouse and children may be obtained at an additional cost in the Office of University Insurance if applied for prior to the tenth class day following the first day of regularly scheduled classes.

Students who wish to maintain continuous year-round coverage may purchase coverage for the summer period whether or not they are enrolled in summer school. This should be done prior to the Spring Commencement date. The five-week period between Commencement and the start of Summer session is not covered in any registration fees and coverage must be purchased separately before the end of the spring semester.

Claim forms and brochures explaining the coverage are available in the Office of University Insurance.

Payment of Tuition and Fees

Students who pre-register for a semester will be billed for tuition and fees before the beginning of the semester. If the bill is not paid by the date it is due, the student's classes will be cancelled and the student must re-register at the beginning of the semester. Students who register for classes at the beginning of the semester must pay their bill at that time. The *Class Schedule* booklet list specific dates. Tuition and fees are subject to change by action of the Board of Regents or the General Assembly.

Refund Policy

For the first semester, the last day to withdraw with eligibility for refund is September 6, 1978. For the second semester, the last day for refunds is January 26, 1979. No refunds are authorized for withdrawal after these dates.

A student whose course of study requires absence from campus for the entire term shall, upon proper application, receive refund of activity, general service, and health service fees. The application for such refund must be

made prior to the tenth day following the first day of regularly scheduled classes.

Those students who can produce evidence of equal or better coverage may apply for a refund of the insurance fee by contacting the Office of University Insurance. Application must be submitted within ten class days following the first day of regularly scheduled classes.

The statement of the refund policy for University housing is a part of the housing contract.

Estimated Total Yearly Expenses

Because Illinois State University is a state-supported institution, the cost of attendance is relatively low. The estimated total expenses for the 1977-78 academic year (two semesters) was \$3,000 for a single dependent student classified as a resident of Illinois. This figure includes tuition, fees, books, supplies, room and board, travel, and personal expenses. Estimated expenses for self-supporting or independent students and married students or those with dependents will vary according to differences in family size. Non-residents will incur higher tuition charges and will normally spend more for travel expenses. Tuition, fees, and on-campus housing charges are subject to change by action of the Board of Regents or General Assembly of Illinois.

Campus Living Accommodations and Policies

Residence Halls and Family Apartments

The University owns and operates residence halls which provide living accommodations for approximately 8,000 students. These facilities have been designed to provide not only basic living requirements, but also counseling, advising, educational and recreational programs. The University regards residence hall living as an important part of University life and requires that certain students reside in the residence halls as a condition of enrollment.

The Assistant Director of Residential Life (Programming), aided by Graduate Programming Assistants, works with students in developing educational programs in the residence halls. Faculty and other University resources contribute to educational programming within student residences. The Assistant Director of Residential Life works with the Association of Residence Halls and serves as an adviser to residence governance systems.

Room assignments are made after consideration of each student's choice, not only of location, but also living style. Arrangements may be made to spread residence hall payments over a period of time to aid in budgeting for an academic year.

The room and board rate in the residence halls for 1978-79 is \$672 per semester for multiple occupancy and 20 meals per week. Single rooms are available for an additional cost of \$100 per semester. For students electing a 15-meal contract, which eliminates weekend meals, there is a reduction of \$15 per semester from the basic contract. Student rooms are fully equipped but the student is expected to furnish linens, towels, blankets, pillows, bedspreads, and waste baskets.

The University also owns and operates family units at Cardinal Court and Shelbourne Drive. There are 192 apartments in Cardinal Court. The 122 one-bedroom units rent for \$90 per month; the 70 two-bedroom units rent for \$105 per month. As Cardinal Court Apartments are re-

modeled to include air conditioning, the rent is increased by \$28 per month.

lbourn Drive. The 50 one-bedroom units rent for \$120 per month; and the 50 two-bedroom apartments rent for \$145 per month.

These facilities are managed by the Office of Residential Life. Inquiries regarding housing should be addressed to that office. In the event that there is not sufficient space in residence halls or University apartments, the Office of Residential Life will provide assistance in securing housing in the community.

On-Campus Housing Policies

Entering freshmen who have not previously attended this University must reside in University-operated residence halls for their first four (4) semesters in residence. Students transferring to this University as sophomores (as classified by the Office of Admissions) must reside in University-operated residence halls for their first two (2) semesters in residence. These regulations are applicable to all students registered for twelve (12) or more semester hours insofar as space is available in University residence halls. Residence hall living for two summer sessions is equivalent to one semester. Each exempted semester counts toward the requirement.

The University may make exemptions for certain categories of students based upon guidelines related to marital status, proximity of home to campus, age, and other pertinent factors. Special consideration will also be given to applications for exemption from students who present evidence of plans to live in fraternities, sororities or cooperative houses which meet the criterion of being non-commercial.

Off-Campus Housing Policies

Illinois State University has discontinued its classification of any off-campus housing as being approved by the University. The University has also discontinued its participation in housing contracts issued to students renting space in private housing and does not participate in the inspection of any off-campus housing.

Appeal Procedure

The University has established, through the Office of Residential Life, a review and appeal procedure by which students, covered by the University's on-campus living requirement, may apply for exemption. The original action on an application for exemption will be taken by a housing official. An appeal of this action may be taken to an Appeals Committee composed of two members appointed by the Director of Residential Life, and two students, one appointed by the Association of Residence Halls and one by the Student Association. The committee will be chaired by a third disinterested staff member, appointed by the Director of Residential Life.

Financial Aid

Approximately sixty percent of Illinois State University students receive some type of financial assistance which is used for their educational-related expenses. Three major types of financial assistance are available from Federal, State, University, and Private sources. These three types of aid include the following: 1) grants and scholarships; 2) part-time employment; and 3) loans. All financial aid is coordinated through the Financial Aid Office located in

Hovey Hall, 211. Scholarship, grant, and loan checks issued by ISU will be automatically credited or restricted to pay in full all outstanding University debts, charges, and penalties, including registration and housing charges. Students interested in receiving financial aid are strongly encouraged to complete necessary applications before the deadline dates of the various aid programs in order to receive full consideration. Aid recipients must maintain satisfactory academic progress as defined by the institution and described in this catalog under *Academic Policies and Procedures*.

For further information, students may refer to the *Illinois State University Financial Aid Information Guide*, Financial Aid Brochure, Tape Information Service (tapes 30, 1-10) or contact the Financial Aid Office.

Effective with the eight-week summer session, 1978, and the 1978-79 academic year, a simplified aid application process has been developed. For the majority of Illinois State students who wish to apply for the major need-based Federal, State and University aid programs, only two applications will normally be required: 1) an ACT Family Financial Statement (FFS); and 2) an Illinois State Scholarship Commission (ISSC) Monetary Award Application.

The ACT Family Financial Statement is the only application to be submitted in order to be considered for the following need-based federal and institutional aid programs: Basic Educational Opportunity Grant (BEOG); Supplemental Educational Opportunity Grant (SEOG); College Work Study (CWS); National Direct Student Loan (NDSL); High Potential Student Grant; and Regents' Tuition Waiver and University Scholarship programs administered by the Financial Aid Office. A \$4.00 processing charge is required for a Family Financial Statement. In order to receive consideration for the aid programs listed above, a student must request ACT to send a processed version of the Family Financial Statement to ISU. This is done by noting the ISU code (1042) in the appropriate section of the Family Financial Statement. The preferential filing date for the Family Financial Statement is March 1st each year. Applications received after that date will be processed according to available funds and staff time. Those students who wish to apply for financial assistance from ISU for the eight-week summer session 1978, must submit a Family Financial Statement to ACT by May 15, 1978. Aid files of those summer session aid applicants which contain discrepancies or errors which are not totally resolved by June 15th will not be processed for the 1978 summer award period.

For undergraduate aid applicants who are Illinois residents, an ISSC Monetary Award application should be submitted in addition to the Family Financial Statement in order to receive consideration for this State tuition and fee grant program. It is recommended that the ISSC application be submitted prior to March 1st each year for aid packaging and registration billing purposes. ISSC Monetary Award applications are available at high school and community college counseling offices and the ISU Financial Aid Office.

Grants and Scholarships

Federal Grants and Benefits

Supplemental Educational Opportunity Grants (SEOG): This program provides grants for students with exceptional financial need. Up to one-half of the actual need of the student may be met by the grant. The other half of the need must be matched by other financial aid administered by the University or the grant will be revised. Students interested in applying for an SEOG for

the 1978-79 academic year must complete an ACT Family Financial Statement.

Basic Educational Opportunity Grants (BEOG): This program provides federal financial assistance in the form of grants to students demonstrating need for such assistance. A separate application form for the BEOG is necessary and may be obtained from high school counselors, ISU Financial Aid Office, post offices, and other locations easily accessible to students. Students apply directly to the BEOG Program for determination of eligibility. Students should receive a Student Eligibility Report (SER) within four weeks after applying which will indicate the results of the application. The SER must then be submitted immediately to the ISU Financial Aid Office where the amount of the BEOG will be calculated.

The ACT Family Financial Statement must be completed to be considered for a Basic Grant at ISU. Family Financial Statements are available from high school and community college counselors, the ISU Financial Aid Office, post offices, and other locations easily accessible to students. Students will receive a Student Eligibility Report (SER) within six weeks after applying which will indicate the results of the application. If complete and accurate, all copies of the SER should then be submitted immediately to the ISU Financial Aid Office where the amount of the Basic Grant will be determined.

Vocational Rehabilitation Education Assistance: Under Public Law 113, the federal and state governments jointly provide rehabilitation services to any disabled individual to enable the person to engage in a remunerative occupation. These services may include a financial grant that covers all or part of the tuition and fees and/or the student's maintenance costs. For detailed information and assistance in making application for State Vocational Rehabilitation Education Assistance, write to the Division of Vocational Rehabilitation, 623 E. Adams Street, P.O. Box 1587, Springfield, Illinois 62706.

Social Security Benefits: Students not yet twenty-two years of age whose parents are deceased, disabled, or retired may be eligible for Social Security benefits and should contact their local Social Security Office to secure such benefits.

Veterans, G.I. Bill: Benefits are available for any honorably-discharged veteran of the Army, Navy, Marine Corps, Air Force or Coast Guard who (1) served continuously on active duty for at least 181 days ending after January 31, 1955, (2) served less than 181 days, if active duty was ended by a service-connected disability, and (3) serve presently in the Armed Forces, if they have had at least 181 days active duty. Benefits will be paid a maximum of forty-five months for undergraduate work only. Contact the ISU Financial Aid Office for details.

Junior G.I. Bill: Students whose parents died or are permanently and totally disabled from disease or injury incurred or aggravated in the Armed Forces since the beginning of the Spanish-American War are eligible for the Junior G.I. Bill. Children of service men missing in action or prisoners of war for more than 90 days also are eligible. Assistance is available to eligible students during the period which begins on the date of the eighteenth birthday or successful completion of high school, whichever comes first, and ends on reaching the twenty-sixth birthday. Widows and wives may also qualify if the veteran husband is deceased or permanently and totally disabled from service-connected causes, a prisoner of war, or missing in action for more than ninety days. Contact the ISU Financial Aid Office for details.

State Scholarships and Grants

A student awarded a State Scholarship who does not plan to attend during consecutive semesters should notify the agency responsible for the award and request a leave of absence in order to protect the scholarship for the future. State Military Scholarships may be used by students enrolled for classes on or off-campus; other State scholarships may be used only by persons enrolled on-campus.

Illinois State Scholarship Commission Monetary Award Program (ISSC): The Illinois State Scholarship Commission Monetary Award Program makes tuition and fee grants available to students on the basis of financial need. The applicant must be a United States citizen or permanent resident of the United States and a resident of the State of Illinois, as determined by the legal residence of the parent(s) or legal guardian(s). Applications are available from high school counselors or the ISU Financial Aid Office and are to be returned to the Illinois State Scholarship Commission located in Deerfield, Illinois. This application procedure is separate from consideration of other financial aid programs.

Illinois Veterans Scholarship: Veterans may avail themselves of the provisions of the Veterans Scholarship, provided they have honorable discharges and were residents of the State of Illinois at the time they entered military service. These scholarships, which cover registration and activity fees for four years at the State supported colleges and universities only, are administered through the ISU Financial Aid Office.

State Special Education Scholarships: The State Special Education Scholarships for high school graduates and for certified teachers are made available by legislative enactment to selected high school graduates who agree to take courses that will prepare them to teach handicapped children. To be eligible, a student must be in the upper half of the high school graduating class. The scholarship is not valid for more than four years of attendance within a six-year period. This scholarship carries an obligation to teach in Illinois two of five years following graduation, or the amounts received must be repaid to the State of Illinois in total with interest at the rate of five percent. High school seniors should contact the Superintendent's Office located in their county of residence about this scholarship, which covers tuition and activity fees for each semester and summer session.

General Assembly Scholarships: General Assembly Scholarships, which cover tuition and activity fee charges, may be used for four full years. Interested students should contact their State Representative or Senator. A competitive type examination may be given to determine eligibility. The student must be a resident of the district from which he or she hopes to obtain the scholarship.

Regents' Tuition Waivers: These tuition waivers are made available to students with financial need who have not been awarded the Illinois State Scholarship Commission Monetary Award (ISSC). Other award criteria include demonstrated academic achievement, talent in University-related activities, or classification as a foreign student.

University Scholarships

A limited number of Illinois State University Scholarships are available which are awarded on the basis of financial need and/or academic achievement. They are generally restricted to students earning a grade point average of 3.00 or above. Talent scholarships in such areas as speech, music, theatre, and athletics are available through

individual departments. Competitive academic scholarships (Foundation Alumni Distinguished Scholarships and National Merit Scholarships) are administered by the Office of Admissions and Records. Further information concerning specific University scholarships available to students may be obtained by contacting the Financial Aid Office.

Private Scholarships

Approximately 200 private agencies award private scholarships to ISU students annually. These agencies usually include a club, foundation, organization, corporation, or church. Requirements are determined by the individual agency and are usually based on academic achievement or some other criteria. A list of those private agencies who have made awards to ISU students during the last several years is available in the ISU Financial Aid Office.

Loan Programs

National Direct Student Loan (NDSL) Program: This loan program provides long-term student loans interest-free as long as eligible students are enrolled at least half-time at ISU. The student begins repaying the principal (with three per cent simple interest) nine months after leaving school. Students must complete an ACT Family Financial Statement to apply for an NDSL. The amount of the loan is determined by a student's demonstrated need, federal funds available, and applicable federal guidelines.

Illinois Guaranteed Loan Program: (IGLP) Loans are also made available to students through the Illinois Guaranteed Loan Program, which is designed for families with less actual financial need who desire to utilize credit to meet college expenses. If the borrower and family can qualify through federally prescribed formulas, the federal government will pay the interest that accrues on the loan during the period the person is a student. During the repayment period, the annual percentage rate of interest is seven percent and all borrowers must pay this interest as it accrues. Applications for this program are available from participating banks, credit unions, and savings and loan associations.

University Emergency Short-Term Loan Program: The Financial Aid Office offers an interest-free loan program for emergency educational expenses. Loans under this program should be sought only when alternative resources are exhausted. Loans are available to currently enrolled students only and must be repaid within 60 days, or 20 days before the end of the semester, whichever occurs first. A fifty-cent processing fee must be paid before funds can be obtained. A \$10 service fee will be charged to any student who is delinquent in making full payment after the due date. Students must repay all short-term loans before they will be permitted to register for a subsequent semester at ISU. Short-term loans are to be repaid at the Cashier's Office in Hovey Hall. Philanthropic organizations and individuals have contributed to this loan fund through the ISU Foundation over a period of years.

Student Employment

For those individuals on the ISU student payroll, the hourly rates range from \$2.30 to \$3.50. This pay range is subject to change by action of the State of Illinois and/or Illinois State University. Students enrolled for nine or more semester hours may work part-time at Illinois State University. Eligible student employees usually work between ten to twenty hours per week while classes are in session.

College Work-Study Program: This federally-sponsored program enables students with demonstrated financial need to earn a portion of their expenses while they are enrolled at Illinois State. An ACT Family Financial Statement just be completed to be considered for College Work-Study. The federal government pays eighty percent of a Work-Study student's earnings, while the employer pays the balance. A student employed 10-20 hours per week can usually expect to earn between \$700 and \$1,400 a year. Work-Study students may find jobs on-campus (food service, library, union, department offices) or in nonprofit off-campus agencies (hospitals, youth centers, counties, cities, elementary or secondary schools). Work-Study positions are posted on job boards located outside the Financial Aid Office in Hovey Hall. Students may then go directly to the employer for an interview and, if hired, must complete state and federal withholding tax forms in the Payroll Office in Hovey Hall. Work-Study employers must also complete and return a Student Employment Form for all students hired. Students are not permitted to earn more than their Work-Study eligibility as determined by Federal regulations. Students *must* complete an ACT Family Financial Statement to apply for Work-Study.

Regular Student Employment: Those students who desire to work on or off-campus and who have not been awarded Supplemental Educational Opportunity Grant (SEOG), National Direct Student Loan (NDSL), or College Work-Study funds are eligible for any part-time employment positions on or off-campus. The Financial Aid Office has information on such employment opportunities posted on referral boards located outside the Financial Aid office in Hovey Hall.

Academic Policies and Procedures

University Grading System

Course Grades

Instructors assign a grade in each course for which the student is registered. Responsibility for correcting any error in grading rests with the course instructor. University grades and their values are:

		Grade Point per Semester hour
A	(Superior)	4
B	(Above Average)	3
C	(Average)	2
D	(Below Average, Passing)	1
F	(Failing)	0
I	(Incomplete)	0
WX, WP,		
WF	(Withdrawal)	0

A, B, C, or D are recorded for work given a passing grade.

F will be given to (1) students who drop out of a course without withdrawing officially, and (2) students who are in a course all semester but fail to earn a passing grade.

CT (Credit) will be given for passing work (with grade equivalent to A, B, or C) earned under the Credit/No Credit Option. NC indicates that no credit (with grade equivalent to D or F) was earned in a course attempted under the Credit/No Credit Option.

In a given course, grades of CR (Credit) and NC (No Credit) may be the only grades offered. Such variations in grading are permitted only after approval by the Provost.

WX is given if the student withdraws before the quality of work can be determined; WP if the student is passing at the time of withdrawal; WF if the student is failing. Consult the section on withdrawal policies for further details.

Credit/No Credit Option

An undergraduate student (except a first semester freshman) who is not on scholastic probation may choose to register in some courses under an option which allows the student to be graded on the basis of CT (Credit) or NC (No Credit) rather than on the basis of A, B, C, D, or F grades. This Credit/No Credit (commonly called Pass-Fail) Option is designed to encourage students to enroll in courses they otherwise would not take. Some courses, therefore, including those in a student's major or minor, may not be taken on the Credit/No Credit Option. A maximum of 6 semester hours of work under the Credit/No Credit Option may be taken each semester, and a total maximum of 25 semester hours under the Credit/No Credit Option may be presented for graduation. Although an entry of CT (credit earned under the Option) or NC (no credit earned under the Option) will be entered on the student's record, these entries are not used in computing the grade point average for the student.

A grade of CT is recorded when the grade submitted by the instructor is A, B, or C. A grade of NC is recorded when the grade submitted by the instructor is D or F.

A student electing the Credit/No Credit Option should do so as part of the regular registration process. In no case may a student elect the Credit/No Credit Option later than the last day for making program changes. Students who have elected the Credit/No Credit Option may return to the letter basis of grading up until the last date for withdrawing from a course.

Incompletes

An I (Incomplete) will be given to a student who is doing passing work but who, because of a justifiable reason such as illness, finds it impossible to complete the work by the end of the semester or session. The student must have been in class to within three weeks of the close of the semester or one week of the close of the summer session. The student, the instructor and the department chairperson shall sign a verification form which will include a justifiable reason for assigning the incomplete grade, the requirements which must be satisfied in order to clear the incomplete grade, and a default grade (A, B, C, D, F, or I), which is the grade the student will receive if the outstanding work is not completed. A copy of the verification form shall be kept on file in the office of the department offering the course, and a copy shall be provided to the student. If the I (Incomplete) grade has not been cleared within one calendar year (or by the time the student has graduated, whichever comes first), it shall be converted on the student's record to the default grade. In exceptional cases, deviations from the policy may be granted by the Assistant to the Dean of Undergraduate Instruction.

Auditors

A student may register as auditor in a class or classes if facilities are available. An auditor does not participate in the activity of the class, but is expected to attend regularly. An Audit (AU) designation will appear on the student's transcript when the instructor certifies that the student has attended the class on a regular basis. To register as an auditor, a student must register for the course. Then the

student must get the instructor's signature on an auditor's permit which can be obtained from the Registration Office. Students must register to audit a course by the last day for making program changes, with any exception having the approval of the department chairperson in which the course is offered and the Assistant to the Dean of Undergraduate Instruction. The auditor fee is shown in the section on costs. Students who are registered for 12 or more hours for credit may audit courses without additional fees. Audited courses are considered part of the student's total load.

Grade Point Average

In order to be eligible for graduation, a student must have a minimum grade point average of 2.0 (C) in all courses taken at Illinois State University for which grades of A, B, C, D, or F are assigned. Failures which have not been cleared by repetition of the courses are considered in the total number of semester hours taken in computing the grade point average. The following illustrates the counting of grade points to determine the GPA (Grade Point Average).

Course	Grade	Sem. Hrs. Enrolled	Sem. Hrs. Earned	Sem. Hrs. for GPA	Grade Points
POS 105	D	3	3	3	3
BSC 145	CT	2	2	0	0
INF 110	A	3	3	3	12
MUS 139	I	1	0	0	0
CHE 102	B	3	3	3	9
HPR 130	WX	1	0	0	0
HIS 135	F	3	0	3	0
HPR 160	NC	1	0	0	0
		17	11	12	24

The grade point average is computed by dividing grade points earned by semester hours counted. For the case above, the grade point average is 2.0. Grades of WX, WP, WF, CT, CR, I, and NC do not affect the grade point average.

Repetition of Courses

Students may repeat a course in which they wish to improve their grades. Students interested in doing so should consult the Assistant to the Dean of Undergraduate Instruction for current regulations on course repetition, including how repetition of a course will affect the student's grade point average. A student wishing to remove a failing grade or raise the GPA by repeating a course must repeat the course at Illinois State. Grades earned at other colleges or universities cannot be used to replace grades earned at this University.

Academic Requirements

Class Standing

Students in a bachelor's degree program are classified as freshmen, sophomores, juniors and seniors. A student must have completed 30 semester hours to be classified as a sophomore, 60 hours to be classified as a junior, and 90 hours as a senior. Students not working toward a degree at Illinois State are listed as Unclassified Students.

Major Field(s) of Study

Students normally select a major field of study at the time of admission. Students who are undecided about a major field are classified as General Students and are strongly encouraged to select a major field of study before

the beginning of the sophomore year. The major and minor fields of study available at Illinois State are described later in the Catalog. A student may elect to complete the requirements for two majors, both of which may be identified on the student's transcript. When a student double majors, the student indicates only one major for purposes of registration and advisement. The second major is indicated by the student to the Office of Admissions and Records at the time of senior evaluation. Unless otherwise specified in a particular program, students may use a specific course to meet requirements for a major, second major, minor, and second minor.

Change of Major

A student wishing to enter a major or change majors reports to the Office of Admissions and Records. Permission to enter or change to a given major field may be sought by consulting the chairperson of the department offering the major and obtaining signature approval. Entering majors may be restricted by enrollment limitations in some areas, and students should consult the major program descriptions for any admission requirements to a particular major.

Minor Field(s) of Study

Students normally elect a minor field of study. Students in teacher education programs are required to have a minor unless they have a comprehensive major. A student may elect to complete the requirements for two minors, both of which may be identified on the student's transcript. There are no special procedures for admission to most of the minor programs, but students are encouraged to consult with the academic department(s) in which they carry minor(s) for advisement. The minor(s) is(are) indicated by the student to the Office of Admissions and Records at the time of senior evaluation. Unless otherwise specified in a particular program, students may use a specific course to meet requirements for a major, second major, minor, and second minor.

Academic Good Standing

To be in academic good standing, a student must have achieved a minimum cumulative grade point average, depending on the number of semester hours taken, as shown in the following chart:

Semester Hours Taken	Minimum Cumulative Grade Point Average
11 or less	1.00
12 - 29	1.40
30 - 44	1.80
45 - 59	1.90
60 or more.....	2.00

The number of semester hours taken includes all college work taken by the student, but only the grades earned at Illinois State University are used in computing the grade point average. Students who do not achieve the minimum grade point average as specified will be placed on academic probation.

Academic Probation

Students who fail to meet the above requirements are placed on academic probation for the succeeding semester or session. At the end of any term when a student goes on probation a second or subsequent time, he or she is automatically

dropped from the University. A student denied reinstatement at that time may expect to remain out of school one calendar year before the Reinstatement Committee will act on a request for reinstatement. An error in the record or new evidence of academic capability (for example, excellent grades in a semester's work at another school) will result in a review of a student's case when brought to the attention of the Committee. Repeated failures to do satisfactory work may result in permanent exclusion from the University. Information about the probation regulations or a student's own probation status may be secured from the Assistant to the Dean of Undergraduate Instruction.

Academic Honors

Dean's List: Undergraduate students who meet high academic standards, as established by the College of their major, are included in a Dean's List issued each semester. Eligible students must complete 12 or more semester hours, including all work taken during the semester exclusive of any work taken under the Credit/No Credit option, by the end of the semester in which the Dean's List is issued. Names included on the Dean's List for the Colleges of Applied Science and Technology, Arts and Sciences, Education, and Fine Arts will include those students whose grade point averages place them among the top ten percent of those students majoring within the College. The Dean's List in the College of Business will include only undergraduate students majoring in business who have completed 12 or more semester hours with an overall semester grade point in the top ten percent and an average of at least 3.33 for all courses taken during the semester; courses completed after the official end of the semester and courses taken with a Credit/No Credit option will not be counted for this purpose. Students whose majors do not place them in one of the five colleges and whose grade point averages are within the top ten percent of the University are identified on the List of the Dean of Undergraduate Instruction.

Honors at Commencement: Students who have an accumulated grade point average of 3.80 to 4.00 are graduated with High Honors; those with an average of 3.65 to 3.79 are graduated with Honors. These students wear a shoulder loop as part of their academic gown at commencement and their names appear as honor students on the commencement program. All grades earned at this University are counted in computing the grade average except those earned during the term in which graduation requirements are completed.

Bone Scholars: Several undergraduate students are designated annually as Bone Scholars, in honor of former President Robert G. Bone. The designation of Bone Scholar is the highest distinction that can be achieved by students at Illinois State University. Bone Scholars are students who combine superior academic records with full personal development through campus and community activities. Nominations to this honor are made by faculty members, and selection of new Bone Scholars is conducted by the Honors Program.

Catalog Requirements

Students normally use the Catalog in effect at the time they entered the University for meeting graduation requirements. Consult the later section on Catalog and Graduation Requirements for specific regulations and exceptions on Catalog requirements for graduation.

Course Registration and Attendance

Class Schedule

The schedule of classes is available at the Registration Office about the middle of the previous semester so that students in attendance can plan their programs of courses in advance. The *Class Schedule* contains all information necessary on student registration for courses.

During both semesters, the school day ordinarily consists of 50-minute periods from 8 a.m. to 7:50 p.m. or later, Monday through Friday, and from 8 a.m. to noon on Saturday. Day classes usually meet as many times each week as the semester hours offered for the course. Courses with laboratory work meet for double periods for the laboratory part.

Beginning at 4 p.m. or later, there are also classes meeting for only one weekly session, lengthened to the proper time. Some classes scheduled during evening hours may meet for two or more evenings each week. There are also Saturday morning classes in one session.

Academic Advisement

Academic advisers help students plan their program of courses each semester. All students in all majors with less than 45 cumulative semester hours and all General and Unclassified Students, regardless of hours accumulated, are advised through the Academic Advisement Center. All other undergraduate students are advised by designated faculty advisers in the academic department in which the student majors.

In each semester of attendance, students should consult their advisers about planning course programs for the following semester. Registration instructions for each semester are found in the *Class Schedule*.

Course Load Policy

An undergraduate student may carry a maximum of 17 hours each semester. A full-time student usually carries from 15 to 17 hours. A student wishing to carry more than 17 hours in a semester may seek permission to do so from the chairperson of the major department. The granting of this permission will depend on the student's scholastic record. A freshman may not carry over 17 hours during the student's first semester.

A person who holds a full-time position should not take more than six semester hours of work per semester.

A student must have the permission of the Assistant to the Dean of Undergraduate Instruction to take any work, including extension or correspondence, at another college or university with the concurrent registration at Illinois State University.

Course Registration and Changes

Detailed instructions for registration for courses are published for each semester in a *Class Schedule* for that semester. There are two ways of registering for courses for the fall or spring semesters: (1) early registration conducted during the preceding semester, and (2) the registration period provided just prior to the start of classes each semester. Students are encouraged to register during the early registration period because of the wider selection of courses open to them at that time. New freshmen and transfer students may register during Summer Preview and are encouraged to do so because of the wider selection of

courses open to them at that time, or they may register just prior to the opening of the semester.

A student who is already registered for a particular semester and desires to change the program before the deadline for doing so should follow the instructions in the *Class Schedule*.

Class Attendance Policy

The attendance policy of the University is based on two principles: first, that students are expected to attend class regularly; and second, that the student is primarily responsible to the instructor in matters pertaining to class attendance. Every student will be held responsible for class attendance and successful completion of academic work. Attendance regulations are intended to encourage student maturity and are based on the assumption that academic success is the student's primary goal in college.

The University will reasonably accommodate students in circumstances where a religious observance requires absence from class. Students who are unable to attend class or take examinations for religious reasons should consult their instructors in advance about acceptable alternative arrangements.

Withdrawal Policies

Dropping a Course or Courses

The following policy applies where a student drops a course or courses, but not all courses in which the student is registered during a particular semester. *The Dean of Undergraduate Instruction strongly advises students to make a commitment to complete courses in which they are enrolled whenever possible and not to withdraw from courses after the program change period unless absolutely necessary.* A student may withdraw from a course during the program change period without the withdrawal being indicated on the transcript. *After the period designated for program changes, a student must meet with the instructor of any course from which the student is planning to withdraw, have a withdrawal form signed by the instructor, and file the signed withdrawal form with the Registration Office within 24 hours.*

*After the period designated for program changes, a student may officially withdraw from a course with a grade of WX at any time prior to the end of the seventh week (sixth week of classes) of the semester (prior to the end of the third week of an eight-week course and prior to a proportionate time in a pre-session or other short course). Between the start of the eighth week and the end of the fourteenth week of the semester (prior to the end of the sixth week of an eight-week course and prior to a proportionate time in a pre-session or other short course), a student may officially withdraw from a course with a grade of WX, WP, or WF as assigned by the instructor. WX is given if the student withdraws before the quality of work can be determined; WP, if the student is passing at the time of withdrawal; and WF, if the student is failing. A grade of WF shall be computed as a failing grade in computing the student's grade point average. A student should consult the *Class Schedule* booklet and *Summer Session Catalog* for specific withdrawal dates for a given term. Upon the written recommendation of a physician, a student may for medical reasons be granted permission to officially withdraw from a course at a later time than the dates specified.*

A grade of F will be given to students who withdraw from a course unofficially by not having a withdrawal slip signed by the course instructor and placed on file in the Registration Office, who register for a course but do not complete course requirements, or who withdraw from a course after the fourteenth week (or comparable date specified above). In exceptional cases, deviations may be granted by the Assistant to the Dean of Undergraduate Instruction.

Dropping All Courses

The following policy applies when a student drops all courses in which the student is enrolled for a particular semester, known as withdrawal from the University. The *Dean of Undergraduate Instruction* strongly advises students to complete courses in which they are enrolled whenever possible and not to withdraw from the University unless absolutely necessary to do so. Prior to the end of the period designated for program changes, a student reports to the *Office of Admissions and Records* to withdraw from the University. After that date, students contemplating withdrawal from the University should meet with the Assistant to the Dean of Undergraduate Instruction.

If a student's written request to withdraw from the University for substantial reasons is granted by the Assistant to the Dean of Undergraduate Instruction, all grades will be assigned in the same manner and under the same provisions except that the student is not required to contact his or her instructors. Instead, the instructor of each course assigns a WP, WF, WX, or letter grade as appropriate depending on the date and circumstances of withdrawal. If medical or similar substantial reasons make it impossible for the student to follow the usual procedures, a letter signed by the student explaining the situation, with appropriate verification, requesting withdrawal from the University will be sufficient. Whether in person or by mail, the withdrawal is processed by the Assistant to the Dean of Undergraduate Instruction. Withdrawals made by mail are addressed to the Assistant to the Dean of Undergraduate Instruction, Hovey 307, Illinois State University, Normal, Illinois 61761.

Regardless of the circumstances of withdrawal, the student shall be responsible for returning any laboratory equipment and library materials. The student shall pay for any parking fines and remove the parking decal from any registered vehicle. The student shall contact the Office of Residential Life to obtain clearance from room and board obligations and to arrange for vacating the residence hall room. The student should arrange with the Financial Aid Office to place any scholarship on leave or cancel it, and make arrangements for future financial assistance. Arrangements for payment of loans must be made with the Bursar's Office.

A grade of F will be given to students who withdraw from their courses but do not officially withdraw before the specified final withdrawal date, and to students who register for a course but do not complete course requirements. In exceptional cases, deviations may be granted by the Assistant to the Dean of Undergraduate Instruction.

Special Academic Programs and Services

Proficiency and Placement Examinations

Students at Illinois State University may receive university credit as a result of satisfactory performance on examinations in the following programs: **CLEP General, Departmental Proficiency, CLEP Subject, the State Latin Examination and Advanced Placement.** Exemption from some course requirements or appropriate course level assignment may be provided without credit through placement examinations.

Students are advised to plan their coursework and examination attempts carefully. The Advanced Placement and State Latin examinations are offered by designated high schools prior to matriculation into the University. The CLEP General and Subject examinations are administered on campus at specified times by the Measurement and Evaluation Service, 115 Julian Hall. The Departmental Proficiency examinations are offered on two scheduled dates each year as described in the semester *Class Schedule* booklet. Some departments may offer proficiency examinations at other mutually convenient times and should be

consulted directly by the student to make appropriate arrangements.

The University policy precludes the granting of credit through examination if the subject of the examination is at a lower level of difficulty or essentially duplicates credit earned previously through coursework or examination. Specific restrictions for each of the examination programs are listed below under the appropriate headings.

CLEP General Examinations

Illinois State University grants credit by examination toward University Studies for the College Level Examination Program (CLEP) under the following guidelines:

1. Students who score at the fiftieth percentile or above on the national sophomore norms on one or more of three of the General Examinations (Humanities, Natural Sciences, and Social Sciences-History) will be awarded six semester hours credit toward University Studies in each area passed for a maximum of 18 possible credit hours. Credit is not available for the English Composition or the Mathematics General Examinations.

2. Students who desire to take the CLEP General Examinations are encouraged to do so before enrolling for courses at the University. The amount of academic credit that can be earned through any one of the three General Examinations will be reduced by the amount of academic credit previously earned in that area of study and by the amount of potential credit for current enrollment in any reasonably related course.

3. Academic credit for CLEP will be given by the University only to students who are admitted to and register for classes at the University. Credit for CLEP General Examinations shall count toward University Studies requirements and University Electives only. A student may not use the CLEP General Examinations to raise grades or remove failures in courses already taken. All credit for CLEP General Examinations shall be considered credit at the 100 level.

4. Students who are awarded credit in one or more areas of the General Examinations are expected to consult with their advisers to determine which basic courses and which advanced courses are most appropriate to meet their educational needs.

5. Credit will not be awarded for both an area of the CLEP General Examinations and a Departmental Proficiency examination on a course related to that area. Also, credit will not be awarded for the General Examinations in those areas in which academic credit is earned through Advanced Placement Examinations or CLEP Subject Examinations.

6. Students may take the CLEP General Examinations at ISU under the Institutional Program at times specified by the Measurement and Evaluation Service or at any CLEP Open Test Center. Students who take the CLEP examinations are individually responsible for the cost of the examinations.

Departmental Proficiency Examinations

Departmental Proficiency examinations are provided by the University in most 100-level courses to allow an opportunity for regularly-admitted students to receive credit for knowledge attained outside formal educational channels. Some departments also provide examinations in 200 and 300-level courses. These examinations are optional and recommended only for students who are unusually well qualified. Specific information about the nature of the

22 Proficiency Examination

examinations should be obtained directly from the appropriate departmental offices. University policy on proficiency examinations follows:

1. Each department shall establish the manner and level at which a student shall be judged proficient in a way that is similar to the type and quality of examination(s) (including difficulty level and cut-off points) typically used in the determination of the final course grade. The minimal level at which a student is to be judged proficient shall be equivalent to a grade of "C" in the course. Placement procedures may be used with the approval of the department chairperson to determine the appropriate initial level of coursework for a student or the amount of credit that may be given as equivalent to prerequisite courses listed in the *Undergraduate Catalog*.

2. Each department shall have proficiency examinations for all 100-level courses regularly listed in the catalog (excluding seminars).

3. A comprehensive statement of course objectives should be available to all students for each course for which proficiency examinations are given. Only after examining the course objectives should a student consider whether or not he/she should elect to be examined as proficient in the course under consideration.

4. Participation in proficiency examinations is open to all students admitted to Illinois State University; however, students may not register nor receive credit for Departmental Proficiency examinations prior to the successful completion of twelve semester hours of accredited college or university coursework without written approval of the chairperson of the department in which the course is offered.

5. Credit granted for proficiency examinations will not have a letter grade assigned; therefore, the grade point average will not be affected.

6. Credit earned in proficiency examinations may not be used to raise grades or remove failures in courses already taken.

7. No course credit will be awarded for proficiency examinations which substantially duplicate previously earned college credit.

8. A student will not be permitted to take a proficiency examination more than once nor may any student register for more than one Departmental Proficiency examination each semester unless approved in writing by the chairperson(s) of the department(s) in which the courses are being offered.

9. Responsibility for the supervision and administration of the proficiency program shall rest with the Director of Instructional Development in the Office of the Dean of Undergraduate Instruction, Hovey 414.

CLEP Subject Examinations

In addition to the opportunities provided by the CLEP General Examinations described above, several departments grant credit by examination in specific subject areas covered by CLEP Subject Examinations. Courses approved for credit under this program are History 123 and 124, Mathematics 115 and 116, Political Science 105, Psychology 111, and Sociology 106. Credit may also be earned and applied towards the requirements in the Medical Technology program for acceptable levels of performance on the CLEP Subject Examinations in Clinical Chemistry, Hematology, Immunohematology/Blood Banking and Microbiology.

Students may secure information on taking the examinations, on fees, and on passing scores from the Measurement and Evaluation Service at ISU.

Placement Examinations

Examinations for appropriate course placement are offered by the Departments of Foreign Languages, Mathematics, and Music. No credit is awarded. The mathematics examinations are required of all mathematics majors and minors and students selecting a sequential program in mathematics. General students should also take the examinations if they are considering mathematics as a major or minor or majors in chemistry, physics or biological sciences, or preprofessional study in various science fields. Students in social sciences and business who expect to take either MAT 107 or 120 are also requested to take a special placement examination. Examinations in Foreign Languages or Music may be required of some students. Specific information about the examinations may be obtained from the respective departmental offices.

State Latin Examination

A student who receives a rating of Superior or Excellent in the State Final Latin IV Examination for high school students will be granted eight semester hours of credit in Latin upon registration at this University.

Advanced Placement Program

The Advanced Placement Program is sponsored by the College Entrance Board. The examinations are administered at designated high school testing centers. Students who have passed one or more of the Advanced Placement Examinations with grades of 5, 4, or 3 will be awarded college credit or exemption as indicated below.

A student who has taken Advanced Placement Program examinations should request that his or her scores be sent to the Office of Admissions and Records at Illinois State University. The following provides information in sequence on (1) the particular Advanced Placement Examination, (2) the score required for credit or exemption (in parenthesis) (3) the ISU course or courses for which credit or exemption is allowed, and (4) the total semester credit hours allowed.

American History (5, 4, or 3); HIS 135 and 136; 6 hours.
Art-Studio (5, 4, or 3); ART 100, 2 hours; ART 103, 3 hours; ART 104, 3 hours (total 8 hours).
Art-History (5, 4, or 3); ART 150, 2 hours; ART 155, 3 hours; ART 156, 3 hours (total 8 hours).
Biology (5, 4, or 3); BSC 100, 3 hours; BSC 190, 4 hours; BSC 121, 4 hours (total 11 hours).
Chemistry (5 or 4); CHE 140, 5 hours; CHE 141, 5 hours (total 10 hours). (3); CHE 140, 5 hours.
English (5); ENG 101, 3 hours; ENG 104 or 105, 3 hours (total 6 hours). (4 or 3); ENG 101, 3 hours.
European History (5, 4, or 3); HIS 123 and 124; 6 hours.
Foreign Language Examinations

Latin-Vergil (5 or 4); FOR Latin 116, 4 hours. (3); exemption without credit from FOR Latin 116.

Latin-Lyric (5 or 4); FOR Latin 202, 4 hours. (3); exemption without credit from FOR Latin 202.

Latin-Prose (5 or 4); FOR Latin 201, 4 hours. (3); exemption without credit from FOR Latin 201.

French Literature (5 or 4); FOR French 221 and 222, 6 hours. (3); exemption without credit from FOR French 221 and 222.

French Language (5 or 4); FOR French 115 and 116, 8 hours. (3); exemption without credit from FOR French 115 and 116.

German (5 or 4); FOR German 115 and 116, 8 hours. (3);

exemption without credit from FOR German 115 and 116.

Spanish (5 or 4); FOR Spanish 115 and 116, 8 hours. (3); exemption without credit from FOR Spanish 115 and 116.

Mathematics Examinations

Calculus Test BC (5 or 4); MAT 114, 115, and 116, 9 hours. (3); MAT 114 and 115, 5 hours.

Calculus Test AB (5 or 4); MAT 114 and 115, 5 hours. (3); MAT 114, 1 hour. Music (5, 4, or 3); MUS 151, 2 hours; MUS 152, 2 hours; MUS 252, 2 hours (total 6 hours).

Physics Examinations

Physics Test B (5, 4, or 3); PHY 108 and 109, 10 hours.

Physics Test C, Part I (5, 4, or 3); PHY 110, 5 hours.

Physics Test C, Part II (5, 4, or 3); PHY 111, 5 hours.

Honors Program

The Honors Program provides special educational opportunities for students who by their past performance indicate unusually high academic promise. It is designed to serve students who wish to develop their intellectual abilities to the fullest.

The Honors component of university education at Illinois State should be understood as providing something that is different. Honors study provides an opportunity for educational experiences in all four years which goes beyond ordinary experiences in learning and communicating information. Honors classes and seminars are sufficiently small to encourage interaction between professor and students. Instruction usually is conducted in modes other than the lecture. Honors derives its special characteristics from the interplay of professor and students in an intimate educational setting. Here the challenges to gain education are high and the rewards, also high, are reaped in self-education.

The Honors Program encompasses Honors courses in University Studies, Departmental Honors, In-Course Honors, Independent Honors Study and the Honors Individualized Curriculum.

Honors work in the freshman and sophomore years is usually offered through Honors sections in courses which meet University Studies requirements and are the basic introductory courses of the offering departments. Departmental Honors programs are designed to facilitate advanced undergraduate Honors study in a student's major field. This opportunity is available at present in selected departments on the junior and senior level.

Opportunities exist to earn Honors credit in many regular courses through In-Course Honors. This activity is intended to encourage independent study and in-depth investigation as an Honors component in work covered in a regular course. Independent Honors Study, available in all departments, offers the opportunity for Honors-level self-guided study and investigation in a major discipline. Students desiring In-Course Honors and Independent Honors Studies should make arrangements with instructors and seek the approval of both the department chairperson and the Director of Honors.

The Honors Individualized Curriculum program provides specially qualified Honors students with a full curriculum tailored to their special interests and capabilities. It offers carefully selected students such opportunities as admission to advanced courses, independent study, research, enrollment in certain graduate courses, and possible modification of departmental course requirements where appropriate. Students should apply while in their sophomore year to the Director of Honors, Hovey Hall 307.

The Special Projects Program of Honors can make

available limited financial support to Honors students for special academic activities that would not otherwise be feasible. Guidelines and procedures may be obtained from the Director of Honors.

Incoming freshmen who achieve composite scores of 28 or higher on their ACT tests and are in the 90th percentile or above are invited to apply for the Honors Program. Admission is made on the basis of additional factors, such as initiative and desire of the student to enter Honors, academic standing in secondary school, outside activities and, in unusual instances, recommendations of teachers and counselors. Students already enrolled in the University can be admitted to the program upon application. Requirements for admission are grade point average of 3.3 or above and recommendations from two faculty members who are knowledgeable of their capabilities. Admission requirements may be modified in individual circumstances by the Director of Honors subject to review by the student-faculty Honors Council. Contact the Director of Honors in Hovey Hall 307 for further information and assistance.

The Honors Program also administers the Faculty Colleague Program, a special program for selected incoming students by invitation of the Director of Honors. The principal objective of the program is to maximize opportunities in the University for students with outstanding academic potential through assignment of a "faculty colleague" adviser and building an individualized academic program to best meet the needs and abilities of students invited to participate in this program.

High Potential Students Program

The High Potential Students (HPS) Program has as its objectives the enrollment and retention of economically or educationally disadvantaged students, who without the financial, academic, tutorial, and counseling assistance provided by such a program, would have less opportunities for successful college experiences.

While the majority of the program's participants are regularly admissible to the University by current admissions criteria, a small number of special admissions are made by the program each year. Criteria for admission of students not regularly admissible include personal interviews, past academic performances, recommendations by school officials, standardized tests, and writing samples. Potential for success is the major determinant for all admissions to the HPS program.

Support services include limited counseling and academic advising, with frequent referrals to other campus units offering these services, along with referrals to the Writing Center and the Reading and Study Skills Service. In addition to coordinating financial aid and work-study and other activities for its students, HPS also offers special credit courses in English and Mathematics for freshman participants whose backgrounds and test performances indicate the need for such courses. Interested persons may obtain further information at the HPS office at 411 West Willow Street.

International Studies

The Office of International Studies provides services for Illinois State students and faculty who study abroad, foreign students, residents of International House, and students participating in the National Student Exchange. It also assists academic departments with intercultural and comparative programs in specialized fields. Further information about the programs listed below can be obtained from the Director of International Studies. An International

Studies Center, located in Stevenson Hall, has current information on student travel and study abroad. A library of books, brochures, and other reference materials is available. The Center also serves as a meeting place for students and faculty who are planning trips abroad or have recently returned.

Study Abroad

In keeping with the tradition of a liberal education, Illinois State encourages qualified students to consider studying in another country. The purpose of study abroad is to enable the student to gain a direct understanding of the intellectual and cultural achievements of another culture. In this way, study abroad may contribute toward intelligent citizenship in the world community. Academic programs for a summer session, a semester, or a year abroad are available to Illinois State students.

The University operates four study centers abroad. These centers are located in Salzburg, Austria; Grenoble, France; Brighton, England; and Nagoya, Japan. The center in Salzburg is a joint undertaking with Northern Illinois University. The programs at these centers are designed to be a continuation and enrichment of a student's regular on-campus academic program. Students who are accepted in these programs remain full-time students at Illinois State, and all courses offered at the centers abroad are authorized within the ISU curriculum. Thus, students studying at these centers abroad carry a full academic load for a semester or a year and retain full status as regular students at the University. The usual pattern is for at least one regular faculty member from ISU to be in residence at each center, serving as both instructor and counselor. The major part of the teaching, however, is done by instructors from the host university who lecture in English.

In addition, there are opportunities to study in other countries. Through its membership in a consortium of universities for international education, individual arrangements can be made for students who wish to study in countries other than those in which ISU has centers.

Most of the courses offered abroad fall in the University Studies category. No science or math courses are offered overseas. Therefore, the sophomore year offers the greatest flexibility for those who wish to study abroad. In some cases it is possible to work out a program of study abroad for the junior year, but this requires careful planning, and students should check with their department chairpersons before choosing this option. Anyone interested in study abroad should consult with advisers in the Office of International Studies.

In the summer session there are special opportunities for study and service abroad. Study programs are offered in foreign languages, art, music, special education, history, political science, economics, geography and sociology. Summer programs of study and service have in recent years taken students to Europe, Asia, the Near East and Latin America.

Foreign Student Advising

The International Studies Office also provides services to all students who are citizens of other countries. The Director of the Foreign Students Program provides assistance to foreign students who must comply with U.S. Immigration and Naturalization regulations. Other services are coordinating campus and community resources and services available to foreign students and the interpretation of foreign students' backgrounds, needs and problems to the institution's officials, faculty and students as well as the

community. The Director assists in matters relating to admissions, personal and academic problems, financial aid, hospitality, housing, and employment. All international students enrolling in the University for the first time should report to the International Studies Center in Stevenson Hall as soon as possible following their arrival on campus.

International House

International House is a coeducational residence and academic program center for American and international students attending Illinois State. The purpose of the House is to promote cultural interaction and international understanding through social and educational programs. This setting provides opportunities to develop friendships and to encourage mutual respect among students of diverse backgrounds and cultures through the experience of living and learning with their contemporaries.

National Student Exchange

In order to make possible an educational experience in cultural and geographic circumstances considerably different from those of Central Illinois, Illinois State University inaugurated the National Student Exchange. Sophomores and juniors with a 2.5 cumulative grade point average may take up to a year's study at any one of numerous public colleges and universities in other states at costs equal to what a student who is a resident of that state would pay. In some cases, scholarship aid may be used. Applications are available between October 1 and March 1.

It is hoped that the exchange of students among institutions will enrich the educational experience of those individuals traveling to distant campuses and those of the host institutions who have a chance to meet and learn from incoming students. Institutions involved in this exchange are Boise State, Bowling Green State University, California State College (Bakersfield), California State College (Chico), Eastern Montana, Fort Hayes State College, Illinois State University, Indiana University-Purdue University at Fort Wayne, Iowa, Jackson State University, Montana State University, Moorhead State University (Minn.), Morgan State College (Md.), New Mexico State University, North Carolina, Oregon State University, Rutgers College (N.J.), South Dakota State University, State University College at Buffalo (N.Y.), Towson State College (Md.), West Chester, William Patterson College of New Jersey, West Chester State College (Pa.), and the Universities of Alabama, Delaware, Hawaii-Hilo, Manoa, Idaho, Maine at Fort Kent, Maine at Portland-Gorham, Massachusetts (Amherst), Montana, Nevada (Reno) (Las Vegas), Northern Colorado, North Dakota, Oregon, South Florida, Utah, and Wisconsin (Green Bay). Others are joining the program each year. For more information, contact the International Studies office in Stevenson Hall 140.

Undergraduate Teaching Assistants

Undergraduate Teaching Assistantships (UTA) are available in nearly all departments of the University to junior and senior students who have demonstrated excellence in the discipline and overall scholastic achievement. The purpose of the program is to assist the faculty in the improvement of instruction and provide a valuable learning opportunity to the assistants. The responsibilities and nature of the UTA assignments are determined by the departments and colleges. The maximum financial com-

pensation is \$450 a semester, or \$900 for the academic year. Some departments provide the opportunity for credit to be earned by the UTA under a General Offerings course (291 Seminar: Undergraduate Teaching Assistants). Three hours is the maximum of this credit that may be allowed for graduation. UTA application forms are available in the departmental and college offices.

Speech and Hearing Clinic

Students having speech and hearing problems may receive evaluation and therapy at the Speech and Hearing Clinic, located in Fairchild Hall. The clinic also serves as a laboratory for students majoring in speech pathology and audiology. Hearing services include hearing tests, lip reading, auditory training and advice concerning hearing aids.

Writing Center

The Department of English invites students and faculty to visit the Writing Center located in Stevenson 410. Students will find tutors willing to help with many kinds of writing problems. Faculty will find teaching materials, individualized instruction packets and style manuals for their use both in teaching and in research. Students are invited to drop in, and faculty are asked to refer students by using the forms available in departmental offices. For further information contact: Dr. Janice Neuleib, Director of the Writing Center, or the Department of English.

Media Services

Media Services supports the University's academic program by providing educational media and instruction in the use of media. Media services is organized into the production and/or service functions listed below:

Media Distribution Unit: All types of audiovisual equipment and prepared materials such as films and film strips are circulated for on-campus use through this unit.

Graphic Production Unit: Assistance is provided to faculty in this area for planning, designing, scripting, story boarding, editing, and refining all types of materials for audiovisual productions.

Audio Production Unit: Tape recording, duplication, narration, and slide synchronization programs are available through this unit for faculty.

Learning Labs Unit: This area includes a Pyramid information and retrieval system in DeGarmo Hall allowing students to obtain a copy of a program within a few seconds and completely control the presentation; a Learning Resource Center allowing for self-paced study through the use of audiovisual equipment; an audiovisual equipment laboratory housing self-paced instructional packages on the operation of audiovisual equipment for faculty and student use, a graphic production area where students and faculty can produce visuals, and an audio production area where students and faculty can make audio tapes and tape/slide presentations.

Television Unit: A closed-circuit television cable system links more than 35 classroom buildings and dormitories along with a direct connection to Tele-Cable, the community Cablevision company serving Bloomington-Normal. The Television Unit has four instructional channels along with five channels from Peoria and Champaign-Urbana. Media Services' Television Unit provides video support for courses.

All functions of Media Services except the television studio and the DeGarmo Pyramid System are located in the Educational Media Center.

Research Services and Grants

The University's Office of Research Services and Grants is an information and coordinating center for faculty and students who wish to secure financial support from sponsoring agencies to conduct research projects, training programs and public service activities. Projects and programs funded by governmental agencies and foundations constitute an important part of the University's involvement in research and development activities. This office serves as a catalyst to stimulate faculty and student interest in research projects, teaching experiments, and community service programs. It provides help in locating appropriate funding sources for new academic endeavors; assists in the development of research proposals; and acts as liaison between the University and funding agencies.

Student Services

Student Affairs Office

The central Student Affairs Office is responsible for fulfilling several broad functions within the University community. The major emphasis is directed toward administrative and programmatic coordination of all identified units in the Student Affairs Area. The office also maintains a formal liaison relationship with four major elective student organizations (Association of Latin American Students, Association of Residence Halls, Black Student Union, and Student Association). The Student Affairs Office is responsible for apprising the University community of student needs and concerns while at the same time interpreting the University's position on various issues and concerns to the student body.

Academic Advisement Center

The function of academic advisers is to assist students in the selection of courses, to provide needed information regarding University curricula and academic policies, to work with students whose academic progress is unsatisfactory, and to refer students to other University services. All majors with less than forty-five (45) cumulative semester hours and all General and Unclassified Students are advised through the Academic Advisement Center. Students with more than 45 hours are assigned departmental advisers in their major field of study. Each summer, entering students receive academic advisement through the Preview ISU program. Any student who needs information on academic matters or who has special problems may call the Advisement Center for assistance.

Career Counseling

Illinois State University offers numerous opportunities to help students clarify their career and vocational goals. Among the sources of help available is a "System of Interactive Guidance Information" (SIGI), located in both the Student Counseling Center and in the Academic Advisement Office. The goal of the SIGI system is to provide information to students about career opportunities consonant with student interests and abilities. In addition to services offered by the Student Counseling Center, the Academic Advisement Center and the Placement Service continue to develop programs to assist all students in career choices. The Placement Service also maintains employment records of past graduates by major fields of study. The

Office of Admissions and Records and the Financial Aid Office have advisers for students who wish to seek information about employment opportunities. Students are also encouraged to seek information about employment opportunities in their major field by consulting their department offices.

Counseling Center

The objectives of the Counseling Center are to provide students with assistance in making choices in the academic, vocational, and personal areas and to help them grow in their understanding of themselves. Counselors interact with students in a non-judgmental, unbiased manner by assisting them in examining their own values and life styles.

Counseling involves individual or group interviews with a professional counselor. The Center offers a variety of groups in such areas as personal growth, counseling, career exploration, and specific interest groups, which are initiated throughout the year according to student needs. A computerized vocational guidance system (SIGI) is also available to assist students in making career decisions. A student may call the Counseling Center for an appointment or simply come to the Center, 56 DeGarmo Hall. Most students can be seen for a first interview the same day they request assistance. All services are offered free of charge, on a voluntary basis, and remain confidential unless the student asks that someone else be informed.

Financial Aid

The Financial Aid Office administers and coordinates in excess of fourteen million dollars in aid funds to approximately sixty percent of the total student population at Illinois State University. These funds are available to insure post high school educational opportunities to qualified students. Financial Aid Advisers are available on a walk-in basis Monday through Friday in Hovey Hall 211, to provide individual assistance to students and parents regarding types of aid programs available, eligibility requirements, application procedures, need analysis, part-time employment counseling, money management, aid revisions, registration billing adjustments, and other related areas.

Health Service

Illinois State University maintains the Health Service as an integral part of its services for students. Students registering for 12 or more hours pay a Health Fee at the beginning of each semester which entitles them to Health Center services for the entire semester. Students who register for fewer than 12 semester hours have an option of paying the Health Fee by the 10th day of classes or obtaining service on a "pay as you go" (fee-for-service) basis. The Health Service outpatient clinic and infirmary are located in Fairchild Hall near the center of campus. Physicians are available for consultation during regular clinic hours. A registered nurse is on duty at all hours of the day and night except during official vacation periods as scheduled on the University calendar. Three hospitals and competent medical specialists are available in Bloomington-Normal to handle medical problems when necessary.

All students entering ISU are encouraged to have a dental examination and necessary dental work accomplished by their family dentist prior to registration. Dental services are not provided by the Health Service nor are they covered by student health and accident insurance (except as a result of accidental injury).

New students who have chronic medical conditions such as diabetes mellitus, ulcerative colitis, epilepsy, which require long-term and projected treatment, should plan to retain the services of private physicians for the continuing supervision and management of their case. The Health Service will be glad to cooperate, furnish emergency care and assist the student's physician in the students' care if the private physician furnishes written findings and instructions.

Placement Service

The Placement Service serves the University in several ways. It informs students and alumni of the University of available positions, instructs them in making effective applications, helps them to recognize and observe good professional procedures, and provides related information which will help them to secure good positions. It also seeks to aid officials of schools, businesses and governmental agencies to find qualified applicants for positions. It informs students, faculty and departments concerning present supply and demand trends.

Reading Study Skills Service

The Reading-Study Skills Service offers free, non-credit instruction in a variety of reading and study skills to ISU students. Course offerings include speed reading and study skills (time management, text reading, note taking, and taking tests). Individualized instruction is also available on a short or long term basis in a variety of skills, including vocabulary and spelling improvement. Interested students should come to the RSSS, 210 Schroeder (ph. 436-7100), to arrange times for courses or a conference for individualized instruction.

Residential Life

The University operates both residence halls and family apartments. Full information and assistance in acquiring space in a residence hall or in one of the family units will be provided by the Office of Residential Life. In the event there is not sufficient space in University-owned housing, the Office of Residential Life will provide assistance in securing housing in the community. Listings of rental facilities in the Bloomington-Normal area are available in the Office of Residential Life.

Student Judicial Office

The Student Judicial Office provides administrative support for the Student Code Enforcement and Review Board (SCERB). SCERB has the responsibility for the review and enforcement of student regulations and the review of student grievances. For further information concerning student rights and responsibilities, and SCERB, consult the *University Handbook*, available on campus through the Office of the Secretary of the University in Hovey Hall.

Student Organizations, Activities and Programs

This office is concerned with the total development of the University student at Illinois State by providing programs which reinforce the recreational, social, and cultural opportunities which a student may obtain through out-of-class interaction. Through the professional Program

Advisers, it provides support for all student organizations on campus and, through the University Program Board, coordinates a wide spectrum of programs and performing events, such as University Forum, Entertainment Committee presentations, Capen Cinema programs, New Friends of Old Time Music, and Union Board programs.

University Union and Auditorium

The main purposes of the University Union & Auditorium (UUA) are to extend and complement the educational goals of the University and to provide educational programs, recreational opportunities, and special services. The Union plays an important role in providing facilities for students, faculty, alumni, and community friends of the University to meet and interact in an atmosphere designed to enhance intellectual, social, and cultural growth.

As a center for University activities, the UUA provides unique surroundings to the total University community. Regular meal service is offered daily in the University Union according to a schedule which is available in the main office. UUA facilities are also available for educational use. Arrangements for rooms and banquets can be made at the Scheduling Office, first level concourse, as well as detailed information concerning policies and regulations.

All scheduling for campus facilities other than classrooms, with the exception of the residence halls and athletic facilities, can be made through the Scheduling Office.

Veterans Services

The Office of Veteran Affairs is a part of the Financial Aid Office located in Hovey Hall. Two VA representatives advise veterans on matters relating to benefits and also handle the correction of payment problems. A veteran who was in the service one year or more may qualify for the Illinois Military Scholarship which pays tuition and some fees. To apply for the scholarship the veteran simply needs to bring a copy of his DD214 to the Financial Aid Office located in Hovey Hall. Certain dependents of deceased war veterans are entitled to educational benefits from the Veterans Administration. If a student seeks such benefits, contact should be made with the Veterans Affairs Area of the Financial Aid Office.

Student Clubs and Organizations

The following organizations are presently established on campus to provide the opportunity for students to demonstrate leadership, initiative, and creativity.

Student Association

The Student Association (SA) is an organization dedicated to providing a focal point for student leadership on the total campus. It is the highest office for student advocacy, and in this role it strives to influence decisions concerning the Illinois State student body. In addition, it endeavors to provide services for its constituency that fill needs created by student demands. All students are eligible to vote in all SA elections and referendums. SA provides an important means for student input, and exists only by virtue of student participation in its activities. Any student desiring information or who would like to participate in related activities should contact the SA by phoning 436-6661 or stopping by the offices at 225 N. University. Major SA activities include:

Affirmative Action — A service designed to reach out to the concerns of minority students.

Book Exchange — A service for all students to sell their old books at reasonable prices.

Consumer Affairs — A service which publishes area surveys and will resolve consumer complaints.

Freshman Record — A yearly publication designed to provide information and insight into Student Activities and SA services.

Handicap Services — A service to get students involved in helping visually and other physically handicapped students.

Information & Research Center — A service which provides information and conducts research on student concerns.

Legal Aid Program — A program designed to provide all students with advisory legal services at no cost.

Printing Services — Ditto, memo, thermo-fax, Offset and typing services are available to any student or organization to produce or reproduce any material.

Ride Exchange — Students can obtain and give rides to students all over the country by calling 436-6054 24 hours a day.

Senior Yearbook — An annual publication designed to provide graduating seniors with a remembrance of their years at Illinois State.

Tenant Union — A service which provides counseling regarding tenant and landlord problems that affect students.

Voter Registration — An ongoing service to insure that all eligible ISU students are able to register at the college addresses.

In addition, SA attempts to extend its input by maintaining close contacts with both the Association of Illinois Student Governments and the Student Advisory Committee to the Board of Higher Education, thereby keeping abreast of developments on other college campuses throughout the State.

Association of Residence Halls

All students living in the residence halls are members of the Association of Residence Halls (ARH). The organization provides effective student input into residence hall policy formation, staff selection, room and board rates, renovations, food service and other topics that affect residence hall students. The ARH Assembly consists of representatives selected by the student association of the various residence halls, with officers chosen by a student election during the spring semester. The Association has designated individuals that represent ARH on various University organizations and committees.

ARH is involved with many activities including task force trips to other Universities and offers a wide range of programs and services. The ARH Program Board sponsors several social, educational and cultural programs open to all residents. Some services provided by the ARH are Operation Identification, 24 hour "MOMMY" telephone activities hotline, "What to Bring List" for freshmen, a Newsletter, photography darkroom, winter storage for bicycles and more. ARH is also affiliated with regional and national organizations that have similar concerns.

If you are interested in getting involved in ARH or would like to obtain further information, contact the ARH Office in Watterson Towers, South Tower, Formal Lounge Level (Phone 436-6635).

Black Student Union

The Black Student Union is responsible for developing and providing opportunities for Afro-American students to

involve themselves in creating culture programs relevant to them. It is further responsible for promoting positive identification, association, and relationship for Afro-American historical and contemporary culture. It provides an atmosphere conducive for relevant psychological and social needs of Afro-American students. The Black Student Union provides the opportunities for the development of decision-making ability and potential talents of students who have been neglected. The Black Student Union also provides a vehicle for students to understand their relationship to the total university community. Liaison relationships are maintained with the Student Affairs Office, Illinois Association of Black Students, and Midwest Association of Black Student Governments. Major Black Student Union (BSU) activities include:

AMISTAD — A bi-monthly publication to keep students informed of events that vitally affect them.

Black Awareness Committees — Ongoing committees to promote the preservation of Afro-American life and culture.

Student Communication Media

The *Vidette* newspaper is published daily by students to present important campus news and to reflect student life. Students interested in journalism can get valuable experience in writing, makeup and editing. The student editor appoints a staff of assisting editors and reporters. A faculty general manager supervises the publications.

WILN is a commercial AM and FM student-oriented radio station serving both the campus and the Bloomington-Normal community. Programs include locally produced news, sports, and public affairs, as well as ABC-FM national network affiliation. WILN is a campus organization with membership open to students interested in all phases of broadcasting.

TV 10 News is a nightly television news program telecast from the ISU studios and carried to the Bloomington-Normal community through the local television cable system. It is produced by the Office of Public Affairs and the Department of Information Sciences with professional direction. Students working on the program in news or technical positions may earn academic credit for their participation.

Departmental Clubs

Among the student clubs directly associated with an academic department are: The Accounting Society, Agriculture Club, American Heritage Dancers, American Marketing Association, American Society of Safety Engineers, Association for Childhood Education, Association of Computing Machinery, Business Administration Club, Chem Club, ISU Correctional Association, Dance Theatre, Data Processing Management Association, Forum on Early Adolescent Education, Geology Club, German Club, Junior High Forum, Medical Records Society, Medical Sciences, Medical Technology, Music Educators National Conference, National Art Education Association, Physics Club, Russian Club, Society for the Advancement of Management, Society of Medical Technologists, Society of Physics Students, Student Dietetic Club, Student Elementary Education Board, Student Environmental Health Association, Student Home Economics Association, Student Sociology Association, Student Speech and Hearing, Student T.V. Workshop, and Traffic Safety Club.

Departmental Honorary Societies

Academic honorary societies at Illinois State University

include: Alpha Beta Alpha, Mu Chapter (Library), Alpha Lambda Delta (Freshmen women), Alpha Tau Alpha (National Agriculture), Alpha Zeta (Agriculture), Delta Omicron (International Music), Delta Phi Alpha (National German), Delta Pi Epsilon (Business Education), Gamma Phi (Gymnastics), Gamma Theta Upsilon (Geography), Iota Lambda Sigma (Industrial Arts), Kappa Delta Epsilon (Professional Education), Kappa Delta Pi (Education), Kappa Mu Epsilon (Mathematics), Kappa Omicron Phi (Home Economics), Omicron Delta Epsilon (Economics), Phi Alpha Theta (National History), Phi Beta Lambda (Business), Phi Delta Kappa (National Education), Phi Eta Sigma (Freshmen Scholastic), Phi Mu Alpha Sinfonia (National Music), Phi Sigma Society (National Biology), Phi Delta Phi (National French), Pi Omega Pi (Business Education), Red Tassel Chapter of Mortarboard, Sigma Delta Pi (Spanish), Sigma Tau Alpha (Rainbow Girls), and Sigma Tau Delta (English) and Tau Beta Sigma.

Entertainment Organizations

Campus groups concerned with entertainment include: Capen Cinema, Centennial Cinema, Entertainment Committee, Free Film Society, Homecoming Board, New Friends of Old Time Music, University Forum Committee, University Program Board and Union Board.

Foreign Interest Groups

Foreign Interest Groups include: African Students Association, Association of Korean-American Friends, Association of Latin-American Students, Chinese Students Association, International Relations Association, Iranian Students Association, Nippon-American Student Association, Student Association of Bilingual/Bicultural Education, and Third World Students Information Committee.

Fraternities, Sororities, and Co-ops

General organizations include the Interfraternity Council, Panhellenic Association and Greek Council.

Among the social fraternities on campus are: Acacia, Alpha Gamma Rho, Alpha Kappa Lambda, Alpha Phi Alpha, Alpha Tau Omega, Beta Eta Tau, Delta Chi, Delta Sigma Phi, Kappa Alpha Psi, Lambda Chi Alpha, Omega Psi Phi, Phi Beta Sigma, Sigma Nu, Sigma Phi Epsilon, Sigma Pi, Sigma Tau Gamma, and Tau Kappa Epsilon.

Sororities include: Alpha Delta Pi, Alpha Gamma Delta, Alpha Kappa Alpha, Chi Omega, Delta Delta Delta, Delta Sigma Theta, Delta Zeta, Kappa Delta, Phi Kappa Delta (local), Pi Beta Phi, Sigma Gamma Rho, Zeta Phi Beta and Zeta Tau Alpha.

Co-ed fraternal organizations include: Delta Kappa Delta and Wine Psi Phi.

General Interest Groups

These clubs and organizations include: American Civil Liberties Union, ISU Backgammon Club, Black Awareness and Action Committee, Black Belt Karate Club, Black Student Union, Brothers on Campus, Inc., ISU Correctional Association, Druid's Cave, Eckankar Campus Society, Forensics Union, Free Film Society, Gay People's Alliance, Gleaners, Handicapped Student Association, Haynie Hall Women's Association, History Club, Hounds, Inc., Illinois State Students of the Physically Handicapped, Homebound and Hospitalized, ISU Judo Club, ISU Law Club, Married Students Association, Me Phi Me, Mensa, Monk Brothers, Inc., Motorcycle Club, Omega Pearls, Path, Peo-

ple's Karate and Self Defense, Philosophy Club, Sailing Club, Student Association for Women, Students for Social Service, Students' International Meditation Society, ISU Tutorial Project, Student TV Workshop, WILN Radio, and Worker-Student Alliance.

Political Interest Organizations

Politically oriented groups include: College Democrats, College Republicans, Progressive Party, Rites of Spring Party, United Student Coalition, Unity Party, and the Young Libertarian Alliance.

Religious Organizations

These groups include: Apostolic Christian Bible Class, Baha'i Group, Baptist Student Movement, Baptist Student Union, The Branch, Campus Crusade for Christ, Chinese Bible Study Group, Christadelphians of ISU, Christian Collegians, Christian Science Organization, Follow the Son Fellowship, In the Name of Jesus We Meet, Interdenominational Youth Choir, Interservice Christian Fellowship, Jewish Student Union, Latter Day Saint Student Association, Love, Salvation, and Devotion, Navigators, Newman Club, Prayer and Share, United Campus Christian Foundation, University Lutherans, The Way, Wesley Foundation, and Wittenberg Lutheran Center.

Recreation and Sports Clubs

A balanced program of athletics and recreational activities is prominent in the activity program of the University. With first emphasis on good sportsmanship, University intercollegiate athletic teams compete in football, cross country, basketball, wrestling, swimming, gymnastics, track, golf, tennis and baseball. Junior varsity schedules are arranged in football and basketball. Redbird teams compete with teams from other universities and colleges in the Midwest and across the nation. A student-faculty Athletic Council helps to advise the President regarding athletic policies.

In addition to intercollegiate athletics for men and for women, the University provides a Campus Recreation program. This program includes a broad Intramural Program for men and women with competition scheduled in over 50 activities. The Recreation Office schedules supervised facilities such as gymnasiums, pools and tennis courts for student use. Programs including roller skating, pottery, woodworking and other activities are available. Another exciting option is the Outdoor Program involving checkout of camping, backpacking and canoeing equipment, as well as weekend trips scheduled for each activity. There are a number of recreation and sports clubs, which have open membership to all students. These clubs include: Block & Bridle Club, Bowling Club, ISU Corphyees, Hockey Club, Hockey Booster Club, Horseback Riding Club, Intercollegiate Sports for Women, Martial Arts Association, Officiating Club (Women's), Parks & Recreation Society, Rugby Club, Scuba Club, Shufflin' Shoes, Ski Club, Sport Parachute Club, Table Tennis Club, ISU Trackettes, Trap and Skeet Club, Varunas, Weight-Lifting Club, Whitewater Club, and Wilderness Forum.

Residence Hall Organizations

Each University residence hall has a student government consisting of elected officers and representatives who serve on hall committees and councils. Projects or items of common interest among the halls are shared through the coordination effort of the Association of Residence Halls. The residence organizations include: Association of Residence Halls, Atkin-Colby Student Association, Central Campus Residents' Association, Dunn-Barton/Walker Hall Association, Hamilton-Whitten Hall, Hewett-Manchester Student Association, National Residence Hall Honorary, and Wilkins, Haynie, and Wright Hall Student Associations.

Service Organizations

University service organizations include Alpha Phi Omega, Circle K, ISU Debs, Illinois State Students for Physically Handicapped, Hospitalized and Homebound, Mortar Board, PATH, Students for Social Service, and ISU Tutorial Project.

Music Activities

Music is an important experience in life, and Illinois State, recognizing this fact, provides music organizations to enrich the lives of students. These organizations also are of value in preparing students who plan to teach music to instruct similar groups. Some of the music organizations present programs both on campus and on tour. Membership in these organizations is open to qualified students. Music organizations include: the Chamber Orchestra, Chamber Wind Ensemble, Symphony Orchestra, Concert Band, Varsity Band, University Band, Jazz Bands, Fighting Fifty-Five, Marching Band, Concert Choir, Interdenominational Youth Choir, Madrigal Singers, University Glee Club, Treble Choir, and Civic Chorale.

Speech Activities

The Forensic Union affords an opportunity for intensive training and extensive participation in competitive intercollegiate tournament debating, audience debating, oratory, extemporaneous speaking, and a wide variety of other individual events. Any interested undergraduate regardless of previous experience may join. The Forensic Union travels widely off campus and hosts at home one of the nation's oldest and largest college forensics tournaments. On-campus programs include audience debates and the oratory division of the annual Edwards Medal Contest.

Theatre Activities

The Department of Theatre offers courses and activities in theatre, film and oral interpretation. The University Theatre presents plays regularly in two theatres: Westhoff Theatre, a 450-seat proscenium theatre, and Allen Theatre, a 150-seat thrust stage theatre that is used largely for student-directed and experimental productions. All students are eligible to participate in all phases of theatre production. Admission of students to University Theatre productions is normally one dollar upon presentation of activity card.

As part of the work of classes in Oral Interpretation, the Department of Theatre gives students an opportunity to participate in reading programs.

Undergraduate Academic Programs and Courses

Fields of Study and Degrees Available

The University offers a wide range of academic programs from bachelor's degrees through master's and doctoral degrees. Programs and degrees are available in the following fields of study:

Accounting: B.S., M.S.
 Agribusiness: B.S.
 Agriculture: B.S. and cooperative master's program with University of Illinois.
 Anthropology: B.A., B.S.
 Applied Computer Science: B.S.
 Art: B.A., B.S., B.F.A., M.A., M.S., M.F.A., Ed.D.
 Arts and Sciences: (See Contract Major)
 Bilingual Education (undergraduate minor in Elementary Education).
 Biological Sciences: B.A., B.S., M.S., Ph.D.
 Business Administration: B.S., M.B.A.
 Business Education: B.A., B.S., B.S. in Ed., M.A., M.S., M.S. in Ed.
 Chemistry: B.A., B.S., M.S.
 Consumer Education (Business Education undergraduate minor).
 Contract Major (and minor): B.A., B.S.
 Corrections: B.A., B.S.
 Counselor Education: M.A., M.S., M.S. in Ed.
 Curriculum and Instruction: Ed.D.
 Dance: B.A., B.S., B.S. in Ed.
 Distributive Education (Business Education): B.A., B.S., B.S. in Ed.
 Early Childhood Education: B.A., B.S., B.S. in Ed.
 Economics: B.A., B.S., M.A., M.S., D.A.
 Educational Administration: M.A., M.S., M.S. in Ed., Spec. in Ed., Ed.D., Ph.D.
 Elementary Education: B.A., B.S., B.S. in Ed., M.A., M.S., M.S. in Ed.
 English: B.A., B.S., M.A., M.S., D.A.
 Environmental Health: B.S.
 Ethnic and Cultural Studies (undergraduate minor).
 Finance: B.S.
 Foreign Language: M.A.
 French: B.A., B.S.
 General Business (Business Education): B.A., B.S., B.S. in Ed.
 Geography: B.A., B.S., M.A., M.S.
 Geology: B.A., B.S.
 German: B.A.
 Health and Physical Education: M.A., M.S., M.S. in Ed.
 Health Education: B.S. in Ed.
 History: B.A., B.S., M.A., M.S., D.A.
 Home Economics: B.A., B.S., B.S. in Ed., M.A., M.S., M.S. in Ed.

Industrial Technology: B.S., B.S. in Ed., M.A., M.S., M.S. in Ed.
 Instructional Media: M.S., M.S. in Ed., and undergraduate minor.
 Journalism Education (undergraduate minor).
 Junior High/Middle School Education: B.A., B.S., B.S. in Ed.
 Latin (undergraduate minor).
 Latin American Studies (undergraduate minor).
 Legal Studies (undergraduate minor).
 Library Science: B.A., B.S.
 Management: B.S.
 Marketing: B.S.
 Mass Communication: B.A., B.S.
 Mathematics: B.A., B.S., M.A., M.S., M.S. in Ed., D.A.
 Medical Record Administration: B.S.
 Medical Technology: B.S.
 Music: B.A., B.M., B.M. Ed., B.S., M.A., M.M., M.M. Ed., M.S.
 Office Administration (Business Education): B.S.
 Philosophy: B.A., B.S.
 Physical Education: B.A., B.S., B.S. in Ed.
 Physics: B.S.
 Political Science: B.A., B.S., M.A., M.S.
 Psychology: B.A., B.S., M.A., M.S.
 Reading: M.S. in Ed. and undergraduate minor.
 Recreation and Park Administration: B.S.
 Russian Studies: B.A.
 School Psychology: M.A., M.S., M.S. in Ed.
 Secondary Education: M.S. in Ed.
 Secretarial Education (Business Education): B.A., B.S., B.S. in Ed.
 Social Sciences: B.A., B.S.
 Social Work: B.A., B.S.
 Sociology: B.A., B.S., M.A., M.S.
 Spanish: B.A., B.S.
 Special Education: B.A., B.S., B.S. in Ed., M.A., M.S., and M.S. in Ed. with separate undergraduate majors.
 Speech Communication: B.A., B.S., M.A., M.S.
 Speech Pathology-Audiology: B.A., B.S., M.A., M.S.
 Supervision: M.A., M.S., M.S. in Ed.
 Theatre: B.A., B.S., B.S. in Ed., M.A., M.S., M.F.A.
 Western European Studies: M.A.

Undergraduate Degree Requirements

Undergraduate degrees available at Illinois State University include the Bachelor of Arts, Bachelor of Science, Bachelor of Science in Education, Bachelor of Fine Arts, Bachelor of Music, and Bachelor of Music Education degrees. When applying for graduation, the student indicates the specific degree desired which he or she is qualified to receive. Other requirements include:

Bachelor of Arts

University Studies requirements; General requirements for graduation; Field or fields of study requirements; 32 semester hours in humanities and social sciences (Admissions and Records may be consulted for specific courses which apply to this 32 hour requirement); and three semesters or equivalent of foreign language, with at least one semester at the level of 115 or higher taken in college, with Foreign Languages classes taught exclusively in English excluded (the Department of Foreign Languages establishes high school and proficiency equivalents).

Bachelor of Sciences

University Studies requirements; General requirements for graduation; and Field or fields of study requirements.

Bachelor of Science in Education

University Studies requirements; General requirements for graduation; Teacher education approved major and minor or comprehensive major; and Professional education requirements.

Bachelor of Fine Arts

University Studies requirements; General requirements for graduation; and Art field of study requirements for B.F.A. degree.

Bachelor of Music

University Studies requirements; General requirements for graduation; and Music field of study requirements for B.M. degree.

Bachelor of Music Education

University Studies requirements; General requirements for graduation; Music field of study requirements for B.M.E. degree; and Professional education requirements.

General Requirements for Graduation Requirements for All Students

The following graduation requirements apply to all students. Meeting graduation requirements is the individual responsibility of each student. The student and adviser should check the student's program of courses frequently to assure that the student is fulfilling the following graduation requirements (all references to hours are to semester credit hours.)

1. **Total Hours:** The actual hour requirement for an undergraduate degree varies by the program or combination of programs that a student elects. A student must have a minimum of 120 hours of credit. There are some curricula or combinations of fields which require additional hours. If all specified requirements are completed with fewer than 120 hours, a student must elect sufficient course work to total at least 120.

2. **University Studies:** University Studies hours must total at least 42 hours exclusive of courses taken in the student's major department and distributed over five areas as described in the Catalog. A transfer student who is admitted to the University from a public community college in Illinois and who has completed an associate degree in a baccalaureate-oriented sequence shall be considered to have met the University Studies requirement; other transfer students must complete the regular University Studies program. See the University Studies section of the Catalog for specific area requirements.

3. **Major-Minor Options:** Liberal arts or non-teacher education students who are candidates for B.S. or B.A. degrees must complete a major or comprehensive major field of study. Completion of a second major, minor, and second minor is optional. Teacher education students who are candidates for a B.S., B.A., or B.S. in Ed. degree

must complete professional education requirements and must complete either a comprehensive major or a major and a minor approved for teacher education.

4. **Senior College Hours:** The senior college hours (courses numbered 200 or above) must total at least 42 hours. Coursework transferred from other colleges and universities is not counted as senior college credit if freshmen and sophomores are regularly permitted to enroll in such work. No credits from two-year colleges may be counted as senior level.

5. **Grade Point Average:** Unless otherwise specified in a specific program, the grade point average for all courses taken at Illinois State University must be 2.0 (C) or higher. In addition, the student must have a grade point average of 2.0 (C) or higher in the major field and the minor field, if the student has a minor.

6. **Removal of Incompletes:** Each Incomplete grade (I) must be removed at least six weeks before the Spring commencement or two weeks before August graduation if the course is to be used in meeting graduation requirements.

7. **Residence Requirements:** Unless otherwise specified in a specific program, the residence requirement is completion of one-half of the last two years (a minimum of 30 hours) at Illinois State University.

8. **Constitution Examination:** Each student must pass an examination on the Constitution of the United States and the State of Illinois and on the proper use of the American flag. It is given on five different dates throughout the year as listed on the Instructions for Registration for each semester and for the eight-week summer session. It is also administered to all students enrolled in Political Science 105. A student may also meet this requirement by presenting certification of having passed an appropriate examination at another accredited Illinois college or university.

9. **Correspondence and Extension Course Limit:** A student may not present more than 32 hours of extension and correspondence credit for graduation. Of the 32 hours, not more than 16 hours of correspondence credit will be accepted. Illinois State University no longer distinguishes between those courses offered on campus and those offered off campus and does not offer correspondence courses. Therefore, all credit hours earned at Illinois State apply toward graduation.

Catalog and Graduation Requirements

For a student in regular attendance during at least one term of each academic year, the requirements for graduation are those specified in the catalog for the year the student entered the University. If attendance is not continuous, a student must meet the requirements specified in the catalog in effect when the student reenters the University. If such a student continues in the curriculum chosen originally, the credits earned in meeting the requirements under an old program will apply in a revised program. In all instances, the University may adjust graduation requirements to insure that each graduate of a teacher preparation curriculum meets the course requirements for an Illinois Teaching Certificate.

A student who transfers from a two-year college to this University may choose to meet graduation requirements specified in the Illinois State University catalog in effect at the time the student entered the community college if the student had planned a program with a view toward entering this University and if the following requirements are met: (1) the period of attendance at the community college must not have exceeded two calendar years; (2) transfer to

Illinois State University must have occurred not later than six months following attendance at a community college.

Since University programs are continuously evaluated and improved, a student is allowed to graduate under new requirements published while the student is in attendance at the University. A student who changes to new catalog requirements, however, must meet all the new catalog requirements except for University Studies.

Senior Evaluation, Application for Graduation, and Commencement

During the early part of a student's senior year, the Office of Admissions and Records will inform the student of the graduation requirements still to be fulfilled. Student submission of the application for graduation initiates this senior evaluation process.

In determining specific program requirements (in addition to the general requirements for graduation stated above), a student should consult the following sections of the catalog: (1) the University Studies Requirements; (2) the specific requirements for the major and/or minor fields of study; and, if the student seeks teacher certification, (3) the University-Wide Teacher Education Program Requirements information provided in the College of Education section of the Catalog.

Each student should apply for graduation to the Office of Admissions and Records on or before the date specified in the *Class Schedule* and in the University calendar. The student pays a \$10 graduation fee when applying for graduation, unless the fee is covered by a State Scholarship.

Degrees are conferred and diplomas awarded after the close of each semester and summer session. Commencement is held once each year in May at the end of the second semester. Undergraduate students completing requirements prior to Commencement as well as those who expect to complete degree requirements at the close of the following summer session may participate in Commencement exercises.

Second Bachelor's Degree

A student who has already received one bachelor's degree from Illinois State University, or from another college or university accredited for baccalaureate degrees by the appropriate regional accrediting association, may receive a second bachelor's degree at Illinois State University. All specified requirements for the second degree must be met, and the program of studies completed for the second degree must include at least 32 hours of coursework taken after the granting of the first degree. At least 24 of the 32 hours offered toward the second degree must be senior college level (courses numbered 200 and above).

University Studies Program University Studies Requirements

Each student seeking a bachelor's degree must complete either the University Studies or Individual University Studies program described below. The purpose of University Studies is to provide the student breadth through a familiarity with disciplined inquiry in communication and fine arts, humanities, natural sciences and mathematics, social and behavioral sciences, and applied and professional studies. Students wishing to enter the Individual University Studies program must apply during the freshman year. Otherwise, students are assumed to be completing the regular University Studies program. The Proficiency

and Placement Examinations section of this catalog describes how a student may meet some University Studies requirements through the College Level Examination Program (CLEP) and other proficiency examinations.

Students in this program must complete a minimum of 42 hours of University Studies exclusive of courses taken in the student's major department. A minimum of 6 hours is required and a maximum of 12 hours is allowed in each of the five areas. Courses required in a student's major field which are not in his or her major department and courses in a student's minor field may be counted toward University Studies.

Students who select the Contract Major or the interdisciplinary comprehensive majors in Arts and Sciences and in Social Sciences may count any University Studies course toward the 42 hours required in this program without regard to the exclusion of courses taken in the student's major field. General Students (students who have not yet declared a major) are advised that when they do identify their major, courses in their major department do not count toward the University Studies requirement.

Except for English 101, the program requires neither specific courses nor courses from specific departments. However, within each area, a student is limited to either two courses or a total of 6 hours (whichever is greater) from a single department.

Courses approved for University Studies are listed below and identified in the course section of the catalog by the symbol US and the area of University Studies toward which the course counts (for example, US-A would be a course toward the fulfillment of the Group A requirement).

Dean's Recommendation on University Studies: While the University Studies program outlined above provides much flexibility, the Dean of Undergraduate Instruction recommends that entering freshmen students give strong consideration to structuring a program of courses which will satisfy the University Studies requirement by providing basic general education background and skills. In Group A, ENG 101 (Language and Composition) is required; *it is strongly recommended that students take the course during the freshman year.* INF 110 (Fundamentals of Speech) is recommended toward building oral communication skill, and many students will also wish to take a year of foreign language. In Group B, the entering freshman should strongly consider either (1) the integrative, interdisciplinary Humanities courses (IDS 101 and 102, Humanities I and II on European Civilization), or IDS 103 and 104 (English Heritage and British Civilization), or (2) a combination of regular literature courses from English or Foreign Language courses listed together with History and Philosophy courses. In Group C, a basic mathematics course is recommended and students should strongly consider at least one laboratory course from among the basic science courses listed in Biological Sciences, Chemistry, Physics, and Geology. In Group D, students should build a background in the basic social and behavioral sciences by strongly considering courses such as ECO 100, POS 105, PSY 111, SOA 106, and HIS 137. Group E provides the opportunity for selection of courses from among several applied areas. Freshmen are advised in the Academic Advisement Center and competent advisers are available there to assist students in structuring a University Studies program providing the general education background and skills necessary for later specialized study in the student's major discipline.

Community College Transfer Students: A transfer student who has completed an associate degree based on a baccalaureate-oriented sequence who is admitted to the University from a public community college in Illinois

shall be considered to have attained junior standing and to have met his or her University Studies requirement. Other transfer students must complete the regular University Studies program.

Teacher Certification: Students who plan to teach should be familiar with the general education requirements for teacher certification in Illinois and the requirements for admission to the University's teacher education program. Both are described in the University-wide Teacher Education Program Requirements information provided in the College of Education section of the Catalog. Students planning a career in teacher education can meet these requirements within University Studies, but they must plan their program accordingly.

International University Studies: Credit in University Studies may be earned through the International Studies Program. Information is available from the Director of International Studies.

Honors and University Studies: Students admitted to the Honors Program should consult the Director of Honors regarding special opportunities in their University Studies programs.

Experimental University Studies Courses: The Council on University Studies approves, in addition to the regular courses listed, Selected Studies courses which may also be used to satisfy requirements in the specified groups. These 189, 289, or 389 courses do not appear in the course section of the catalog but are identified by title below. Information concerning new experimental courses is available in each semester's *Class Schedule*.

University Studies Courses and Groups

Students in this program must complete a minimum of 42 hours of University Studies exclusive of courses taken in the student's major department. A minimum of 6 hours is required and a maximum of 12 hours is allowed in each of the five areas. Courses required in a student's major field which are not in his or her major department and courses in a student's minor field may be counted toward University Studies.

Except for English 101, the program requires neither specific courses nor courses from specific departments. However, within each area, a student is limited to either two courses or a total of 6 hours (whichever is greater) from a single department.

Teacher education students who follow this program are advised to plan their programs so they will meet State requirements in general education for teacher certification as well as the requirements for admission to the University's teacher education program.

Students who select the Contract Major or the interdisciplinary comprehensive majors in Arts and Sciences and in Social Sciences may count any University Studies course toward the 42 hours required in this program without regard to the exclusion of courses taken in the student's major field. General Students (students who have not yet declared a major) are advised that when they do identify their major, courses in their major department do not count toward the University Studies requirement.

Courses approved for University Studies are listed below and identified in the course section of the catalog by the symbol US and the area of University Studies toward which the course counts (for example, US-A would be a course toward the fulfillment of the Group A requirement).

Group A: Communication and Fine Arts: 6-12 Semester Hours

English 101 is a University Studies requirement for all students.

Art 100, 150, 242, 250, 259, 277, 278.
Business Education 115.
Curriculum and Instruction 109.
English 101 (required of all students), 145, 241, 243, 245, 247, 289 (Research Writing).
Foreign Languages 101, 111, 112, 113, 114, 115, 116, 189 (Elementary Chinese), 189 (German Language and Environment for Business) as appropriate to the level of previous language instruction.
Information Sciences 110, 120, 123, 125, 160, 167, 201, 270.
Interdisciplinary Studies 189 (Approaches to Communication).
Mathematics 168, 210.
Music 100, 101, 102, 151, 152, 153, 154, 250, 259.
Philosophy 110, 210, 239.
Theatre 100, 101, 131, 132, 141, 146, 232, 250, 259, 270, 341, 345, 365.

Group B: Humanities: 6-12 Semester Hours

Art 155, 156.
English 102, 103, 104, 105, 106, 110, 130, 150, 160, 189 (Today's Shakespeare), 189 (Afro-American Literature), 189 (Heroes and Anti-Heroes), 189 (Jesus and the Quest), 189 (Poetry of Rock), 189 (Literature and the Related Arts), 213, 214, 215, 216, 217, 218, 219, 222, 223, 231, 232, 233, 234, 235, 236, 250, 251, 252, 254, 255, 256, 284, 285, 286, 289 (Afro-American Literature since 1920).
Foreign Languages 105, 189 (Solzhenitsyn), 189 (Outsider as Hero), 189 (Social and Political Revolt in Modern German Literature), 189 (Greek Drama), 289 (Women in French Literature), and all 200 level literature courses.
History: Any History course *except* 135, 136, 137 (see Group D), 287, 306, and 390. Group B includes 289 (Modern Revolutions), 289 (History of the American Indian).
Interdisciplinary Studies 100 and 101 (Humanities—European Civilization I and II), 103 (Humanities, English Heritage), 104 (Humanities, British Civilization).
Philosophy 101, 120, 138, 150, 189 (Religions of the Orient), 189 (Ethics in Business and Consumer Affairs), 203, 207, 209, 220, 232, 240, 242, 250, 253, 254, 255, 289 (Nature of Man), 305, 350, 360, 361, 362.
Theatre 189 (The American Film), 189 (Theatre in Western Culture), 300, 346, 347.

Group C: Natural Sciences and Mathematics: 6-12 Semester Hours

Biological Sciences 100, 102, 121, 122, 123, 160, 181, 182, 189 (Introduction to Evolution), 190, 191, 192, 195, 294.
Chemistry 102, 104, 110, 112, 114, 140, 141, 150, 220.
Geography-Geology 100, 110, 175, 180, 185, 189 (Environmental Geology and Hydrology), 195, 200, 202, 275.
Mathematics 103, 104, 105, 106, 115, 116, 120, 121, 151.
Physics 100, 101, 102, 105, 108, 109, 110, 111, 201.

Group D: Social and Behavioral Sciences: 6-12 Semester Hours

Economics 100, 101, 189 (Introduction to Economic Science I and II), 189 (Economics of the Arts).
Geography-Geology 135, 150, 205, 208, 210, 215, 220,

225, 230, 240, 245, 250, 255, 260.

Health, Physical Education, Recreation and Dance 189 (Seminar: Drugs in Life Style).

History 135, 136, 137.

Information Sciences 223.

Interdisciplinary Studies 105, 189 (People in Conflict), 189 (Cradle to Grave).

Political Science 105, 109, 141, 211, 213, 215, 217, 220, 221, 222, 223, 229, 231, 232, 241, 242, 244, 245, 246, 251, 252, 253, 262, 263, 264, 310, 312, 313, 315, 316, 329, 330, 331, 344, 345, 346, 347, 348, 351, 354, 356, 362, 363, 364.

Psychology 111, 112, 131, 232.

Sociology-Anthropology 106, 107, 131, 180, 182, 183, 260, 261, 262, 263, 264, 267, 268, 281, 282, 283, 386.

Group E: Applied and Professional Studies: 6-12 Semester Hours

Accounting 131, 132.

Agriculture 100, 101, 102, 103, 110, 150, 170, 189 (American Agricultural Heritage), 189 (Soils), 189 (Home Vegetable Production), 189 (Companion Animal Management), 286.

Allied Health 100, 155.

Biological Sciences 110, 145, 170, 199, 202, 306.

Business Administration 110, 111, 140.

Business Education 111, 112, 330.

Corrections 101, 205.

Curriculum and Instruction (courses may be taken for University Studies *by non-teacher education students only*), 228, 231, 232, 235, 289 (Independent Study Methods: Analytical Techniques), 328.

Economics 306.

English 189 (Literature and the Movies), 306.

Foreign Languages 189 (Chicano Studies).

Geography-Geology 306.

Health, Physical Education, Recreation and Dance: Physical Education (HPR)—all 100-149 courses and 180, 181, 182, 189 (Healthful Family Living), 225, 340; Dance (HPR) 120, 123, 124, 163, 165, 166, 167, 169, 267, 268, 269.

History 306.

Home Economics 106, 131, 132, 330.

Industrial Technology 171, 189 (Emergency Preparedness), 308.

Information Sciences 115, 140, 210, 240, 241.

Interdisciplinary Studies 102, 120, 189 (Maleness and Masculinity).

Music 181-188, 281-286, 288.

Philosophy 189 (Persons, Meanings, Values), 189 (Philosophy and the Sciences).

Physics 189 (Physics of High Fidelity Sound Systems).

Political Science 306.

Speech Pathology and Audiology 112, 115, 120.

Any departmental Independent Study project not in the student's major field, *provided* that the project is approved in advance by the department and Dean of Undergraduate Instruction or designee.

Individual University Studies Program

Any freshman student who has completed fewer than 25 hours may elect the Individual University Studies program as an alternative to meeting the requirements specified in the regular University Studies program. This option allows the student and his or her faculty adviser to plan a completely individualized program which considers the student's previous experience and particular interests. A student interested in pursuing the program should:

1. Obtain information and Individual University Stud-

ies (IUS) material from the Office of the Dean of Undergraduate Instruction. Students normally enter the program **during** the first semester of the freshman year, after having registered for their first semester's course.

2. Meet with his or her faculty adviser to discuss an individualized program and complete the plan of study which outlines the minimum of 42 hours (exclusive of courses taken in the student's major department) that will be taken to complete the program. The IUS plan of study may utilize any course in the University. It is not necessary that the plan include the 6-12 hours area requirement of the regular University Studies program. IDS 187 and 287 (Independent Study) are available in the program. Students desiring to use these courses should first consult the Director of Honors.

3. Submit a completed plan of study to the Office of the Dean of Undergraduate Instruction. The program will be approved if (a) the student has completed fewer than 25 college hours, and (b) the IUS contract is agreed to by both the student and his or her faculty adviser and represents reasonable breadth. Changes may be made later in the plan of study contract by agreement between the student and adviser.

4. Submit to the Dean of Undergraduate Instruction during the semester in which the student will complete the IUS contract, a listing of courses actually completed or in process which will complete the program. This information is submitted to the Registrar to validate the successful completion of the student's IUS program.

Teacher education students who elect this program are advised that they are individually responsible for meeting the general education requirements for teacher certification and requirements for admission to the University's teacher education program. Students may meet these requirements within the IUS program, but must plan their programs accordingly.

Preparation for Graduate and Professional Study

Graduate Study at Illinois State

Students interested in graduate study at Illinois State University should consult the *Graduate Catalog* for admission requirements and programs available. Further information may also be obtained from department offices and the Graduate School office in Hovey Hall. Illinois State offers a comprehensive range of master's degree programs and doctoral level programs in Art, Biological Sciences, Economics, Educational Administration, English, History, and Mathematics.

Professional Study Preparation

Requirements for admission to professional study vary according to the profession as well as among the schools offering study for the professions. For this reason, a student planning to enter a professional school should seek specific admission information from the professional school he or she plans to attend. Preparation for admission to a professional school consists of: (1) a broad educational experience (a function of the University Studies program); (2) courses which meet the specific admission requirements of the professional school the student plans to attend; and (3) major and minor subjects which allow for in-depth study in a field of interest and provide an alternative career direction if that becomes desirable.

Health Professions

Preprofessional programs for health related professional colleges usually imply a major in one of the departments in the College of Arts and Sciences. Majors in Biological Sciences or Chemistry are usually elected because several specific preprofessional course requirements can be applied toward a major in these fields. However, a major in any one of a number of other departments in the College is appropriate for many students who have a specific career goal in mind. Speech Pathology and Audiology, Mathematics, Psychology, Sociology, Physics, Economics, and Foreign Languages are several examples of academic areas which have application to specialties within the health professions.

Minimum admission requirements to colleges of Medicine, Dentistry, and Veterinary Medicine are discussed below. Further information about admission procedures to these and other health related professional colleges can be obtained by contacting Dr. John Frehn in the Department of Biological Sciences.

Medicine: Admission policies of individual medical colleges are set forth in "Medical School Admissions Requirements—United States and Canada." Orders for this book should be addressed to:

Association of American Medical Colleges
One DuPont Circle, N.W.
Washington, D.C. 20036
Price: \$5.00 postpaid

Specific course requirements of medical schools in the State of Illinois can be met by taking the following courses:

Chemistry 140, 141, 230, 232, 233.
Biological Sciences 190, 192.
Physics, 108, 109.
Mathematics 115, 116 are recommended.

Other specific course requirements are usually met by completion of the University Studies program. It should be understood, in addition, that a careful selection of University Studies and elective courses beyond the specific admission requirements, can make the applicant more competitive.

Although a few students are accepted for enrollment in medical college after completion of 90 semester hours, they are distinct exceptions. Most students should anticipate the completion of the requirements for a bachelor's degree with the following approximate timetable:

1. Completion of specific course requirements by the end of the junior year.
2. Medical College Aptitude Test taken in May of the junior year.
3. Medical College application process begun in August preceding senior year.

Dentistry: Admission policies of individual dental schools are set forth in *Admission Requirements of U.S. and Canadian Dental Schools*. Orders for this book should be addressed to:

American Association of Dental Schools
1675 Massachusetts Avenue, N.W.
Washington, D.C. 20036
Price: \$5.00 postpaid

With the completion of the University Studies program, the following courses would meet the minimum specific course requirements for Illinois dental schools:

Chemistry 140, 141, 230, 232, 233.
Biological Sciences 190, 192.
Physics 108, 109.

Most students enter dental school after three or four years of preprofessional studies. The minimum requirement

for admission to dental schools in the State of Illinois is two years of college even though most such applicants are unsuccessful. It is therefore advised that students anticipate at least a three-year program with the following timetable:

1. Completion of specific course requirements by the end of sophomore year.
2. Dental Aptitude Test taken in January or April of the sophomore year or October of the junior year.
3. Dental college application process begun in the Fall of the junior year.

Veterinary Medicine: Illinois residents find it exceedingly difficult to gain admission to colleges of veterinary medicine outside the state. Students should therefore direct their attentions largely to the admission policies of the University of Illinois College of Veterinary Medicine.

Specific course requirements are identical to those indicated for dentistry. Some two-year students are accepted, but the majority of successful candidates have three or four years of preprofessional study. The student is therefore advised to plan his program for completion of the requirements for admission to veterinary college by the end of the sophomore year, and that a four-year program leading to a bachelor's degree be anticipated in the event that early application to veterinary college is not successful.

Engineering

Illinois State University offers the courses ordinarily required for the first two years of an engineering curriculum. Students enroll as majors in Physics while at Illinois State. The strong sequential nature of engineering curricula requires that appropriate course selections be made in the first two years if a sound program is to be developed. Student should contact Dr. Robert Young in the ISU Department of Physics for help in planning an appropriate plan of study and for more information concerning the preengineering program.

Illinois State University has an affiliation with the College of Engineering at the University of Illinois whereby students may earn a bachelor's degree from Illinois State University and a bachelor's degree in engineering from the University of Illinois at Urbana in a five-year program. Students generally spend the first three years at Illinois State University and the final two to two and one-half years at the University of Illinois. Increasing numbers of engineering graduates enter leadership roles in industry and government and require a greater understanding of the impact of technology on society. The five-year program encourages a student to develop a broad understanding of the social sciences and humanities and excellence in technical studies. Students interested in this program are urged to contact Dr. Robert D. Young in the ISU Department of Physics at ISU, as soon as possible in their undergraduate careers.

Law

Most law schools do not require any particular undergraduate concentration. A committee of the Association of American Law Schools has recommended that the pre-law student keep in mind three basic objectives in planning an undergraduate program: education for articulate oral and written expression; education for greater understanding of human institutions and values; education to develop the skills of conceptual analysis. The committee emphasized the need for a broad, liberal education with development of the student's intellectual interests rather than one directed too pointedly for later professional training and practice. Students may consult with the University's pre-law adviser, Dr. Thomas Eimermann, for assistance in selecting appro-

appropriate majors and utilizing valuable electives.

Students planning to apply for admission to law school should plan on taking the Law School Admissions Test in either the spring of their Junior year, in the summer between their Junior and Senior years, or in the fall of their Senior year. Information about the exact dates and procedures for the test can also be obtained from Dr. Eimmermann in the Department of Political Science.

Social Work

The profession of social work recognizes three academic levels of preparation for practice. The first level is that provided by Illinois State University's undergraduate Social Work major. Students completing this major will hold a baccalaureate degree qualifying them for the beginning level of professional practice upon graduation (see the Comprehensive Major in Social Work).

A secondary objective of the Illinois State University Social Work major is to prepare students for advanced study at the second or graduate level of preparation. Graduates of this advanced program receive a Master of Social Work (M.S.W.) degree which is considered the equivalent of a terminal degree in the profession.

For those students desiring eventually to teach, to conduct independent research, or to attain important administrative positions in the professional field, a growing number of graduate schools offer a third level of preparation which is the Doctor of Social Work (D.S.W.) or Ph.D in Social Work degree.

Students interested in graduate social work education, either immediately upon graduation from Illinois State University or after a period of professional practice, are urged to consult their social work adviser in the Department of Sociology-Anthropology.

Teaching

Undergraduate students interested in preparing for teaching careers in the public schools should consult the College of Education section of the Catalog for information on admission to the teacher education program of the University and meeting professional education and certification requirements. Students interested in preparing for teaching careers in colleges and universities should consult academic advisers in the discipline in which they plan to teach for information concerning appropriate graduate degree preparation.

Program and Course Explanations

Departmental Abbreviations

The following abbreviations for departmental offerings are used both in the program requirement descriptions and in the course descriptions throughout the Catalog. They are also identical with those used in the *Class Schedule*.

ACC	Accounting
AGR	Agriculture
AHP	Allied Health Professions
ART	Art
BSC	Biological Sciences
BEA	Business Education and Administrative Services
CHE	Chemistry
COR	Corrections

C&I	Curriculum and Instruction
ECO	Economics
ENG	English
FAL	Finance and Law
FOR	Foreign Languages
GEO	Geography-Geology
HPR	Health, Physical Education, Recreation and Dance
HIS	History
HEC	Home Economics
IDS	Interdisciplinary Studies
IT	Industrial Technology
INF	Information Sciences
MAM	Management and Marketing
MAT	Mathematics
MUS	Music
PHI	Philosophy
PHY	Physics
POS	Political Science
PSY	Psychology
SOA	Sociology, Anthropology and Social Work
SED	Special Education
PAS	Speech Pathology-Audiology
THE	Theatre

Major and Minor Program Descriptions

Each undergraduate program available at Illinois State University is listed below including majors, comprehensive majors, and minors. A *major* is designed so that a student ordinarily would combine it with a minor. A *comprehensive major* is designed to be more inclusive, and the student would not ordinarily combine it with a minor. Three general items of information are provided for each program: (1) the degrees which are offered for students who major in the program; (2) the department or office in the University a student should contact for further information about the academic major or minor; and (3) the availability of liberal arts and/or teacher education programs in the area of study. Subdivisions of majors are of two types; (1) a *sequence* is a subdivision of a major in which there are specific curriculum requirements, and (2) a *concentration* is a subdivision of a major which is provided for advisement purposes only (there are not specific curriculum requirements in a concentration). Where two or more sequences are identified under a major, the student selects one of these sequences. Many programs are identical for both liberal arts and teacher education students. Where these programs are different, the major or minor for students preparing to teach is identified as an "Education" program. For example, the liberal arts student studying French should complete the regular French major and the teacher education student, the French Education major. As a further example, the student of Mathematics completes the same major or minor program whether that student is a liberal arts or teacher education student. All references to hours are to semester hours.

Course Descriptions

The University operates on the semester plan. The credit value of all courses is stated in terms of semester hours. Ordinarily, a semester hour is assigned for a 50-minute class meeting per week for the semester; therefore, a course valued at three semester hours generally meets three periods weekly. In laboratory courses, at least two 50-minute periods per week are ordinarily required for each semester hour of credit. A seminar consists of advanced students meeting regularly under the guidance of a professor in which each student attempts original research and exchanges information, problems, and results by informal lectures, reports, and discussions.

Course Levels: Each course bears a distinguishing number for identification and indication of its academic level. The numbering system is as follows:

- 100-199 Lower division undergraduate courses, primarily for freshmen and sophomores.
- 200-299 Upper division undergraduate courses, primarily for juniors and seniors. A student normally should have completed at least 45 semester hours before enrolling in a course at this level.
- 300-399 Advanced undergraduate and graduate courses open to juniors, seniors, and graduate students. A student normally should have completed at least 75 semester hours before enrolling in a course at this level.
- 400-499 Graduate courses. None are listed herein; see the Graduate Catalog. Courses at this level are for graduate students. In exceptional instances, a senior may receive permission to enroll for undergraduate credit in a course at this level. Such permission is granted only upon the recommendation of the student's adviser with agreement of the chairperson of the department offering the course.
- 500-599 Courses limited to advanced graduate or doctoral students.

Course Descriptions: The following information is given for each course: course number (3 or 5 digits preceding the title); course title; credit value in Semester hours; US-A, B, C, D, or E indicates the course is approved for use in meeting requirements in University Studies and the Group for which it qualifies; and F for Fall and S for Spring to indicate the semester for which a course is planned as an offering during the 1978-79 academic year. The University however, may cancel or add scheduled course offerings after publication of this Catalog depend-

ing upon the adequacy of enrollment and availability of faculty. Following the above information, any prerequisites, restrictions on enrollment, and any special considerations are noted in italics. Example:

101 MUSIC THEORY AND

HISTORY 6 US-A

F

Theory Placement Test or MUS 100 or cons Theory Coord. Formerly MUSIC THEORY AND LITERATURE.

Principles of rhythmic, melodic, and harmonic analysis; the cultivation of skills in ear training, sight singing, and repertory building; a general historical survey of Western music.

The course number, 101, indicates that the course is primarily for freshmen and sophomores. The digit 6, following the title indicates the credit value in semester hours. US-A denotes approval for credit in University Studies Group A requirements. F indicates that the course is to be offered during the Fall semester. The italicized lines under the course title indicate the required background for enrolling in the course. In the example given, a student must have passed the music Theory Placement Test or Music 100 or have consent of the coordinator of Music Theory courses prior to enrollment in 101. The title or number of the course in previous catalogs is indicated by the *Formerly* statement. A brief description of the course is provided in the paragraph following the prerequisites. Additional information about the course is available in the respective department office.

Abbreviations commonly used in course information and special notations:

May be repeated indicates that a course may be taken for credit more than once if different content is planned; however, there may be a maximum amount of credit specified for the course.

Variable credit courses. If a course leads to differing number of hours, a student should plan with the adviser the number of hours to be sought.

Conc reg req (or rec) means that concurrent registration in two courses is required (or recommended).

Cons inst means consent of the instructor.

Cons dept chrpn means consent of the chairperson of the department offering the course.

Not for credit maj min means that the credit from this course may not be applied to the major or minor program requirements.

Not for credit if had (course) means that credit from this course is not applicable to graduation requirements if credit has been earned previously in the course identified.

University-Wide Programs and Courses

Dean: Stanley G. Rives, Associate Provost and Dean of Undergraduate Instruction, 417 Hovey Hall.

Applied Computer Science Programs

Program Director: Michael J. Powers, 133B Stevenson Hall.

Degree Offered: B.S. Liberal arts program only; no teacher education program available. Further information: Director of Applied Computer Science.

The Applied Computer Science (ACS) program is an interdisciplinary program involving courses and faculty from several academic departments. Its purpose is to provide training in the application of computer and systems techniques to real world problems. The ACS major is designed to prepare professionals in the area of computer and information systems. The ACS minor is intended for the user, for the person who will serve a liaison role or provide limited computer and systems support for a user group.

The following requirements apply to all ACS majors. Where appropriate, courses used to satisfy these requirements may also be used to satisfy University Studies requirements. Application area: A minor is required; double majors are encouraged. Virtually any area may be appropriate depending on the student's interest. Typical choices are listed with each major sequence.

Communications: INF 110 (Speech) and INF 223 (Small Group Processes).

Quantitative: either Calculus (MAT 225 or 121) or Symbolic Logic (MAT/PHI 210) and a statistics course.

Each ACS major sequence includes a *practical experience requirement* which may be satisfied by a directed project, an internship, or a co-op. Three to six hours are normally counted toward the ACS major for this experience. Application must be made at the ACS office six weeks prior to the start of the term in which the experience is to occur. Each directed project, internship, or co-op requires the prior approval of the director of ACS.

The other requirements listed in each sequence require the prior approval of ACS adviser for the ACS major or the student's major adviser for the ACS minor. The electives depend on the particular ACS sequence and the minor area. Lists of suggested electives are available in the ACS office. A maximum of six hours of *entry level programming* credit (courses with no programming prerequisite) may be applied toward the ACS major.

COMPREHENSIVE MAJOR IN APPLIED COMPUTER SCIENCE

- The comprehensive major stresses both applications programming and systems design. It is appropriate for the student interested in Software Engineering. Acceptance into this program requires junior standing and the written recommendation of two ACS faculty members. A 3.0 GPA in the major is required for graduation.
- 52 hours required.
- **Programming core** (16 hours). Either the sequence MAT 168, 169, 272 or the sequence ACC 266, 366, MAT 274; and MAT 283, 384; or equivalent.
- **Systems and design core** (6 hours): MAT 363, 364.
- **Organization structure** (3 hours): MAM 220 or BEA 111 or INF 329.
- **Practical Experience** (6 hours): MAT 391 or 398.

- Other requirements (21 hours): MAT 284, MAT 383; at least two of MAT 288, 368, 389 (Data Base), 389 (On-Line Systems), 389 (Minicomputer Applications), 389 (Systems Programming); nine additional hours approved by an ACS adviser.
- Suggested application areas (minor or second major) include Accounting, Business Administration, Economics, Mathematics.

MAJOR IN APPLIED COMPUTER SCIENCE

Commercial Applications Programming Sequence:

Designed for the student who will seek a position as an applications programmer or programmer/analyst. 36 hours required. Programming core (13 hours): Either the sequence MAT 168, 169, 272 or the sequence ACC 266, 366, MAT 274; and MAT 384; or equivalent. Systems and design core (6 hours): MAT 363, 364. Organization structure (3 hours): MAM 220 or BEA 111 or INF 329. Practical experience (3 hours): MAT 391 or 398. Other requirements (11 hours): At least one of MAT 283, 284 and at least one of MAT 389 (Data Base), 389 (On-Line Systems), 389 (Minicomputer Applications). ACC 367, ACC/MAM 368; five additional hours approved by an ACS adviser. Suggested application areas (minor or second major) include Accounting, Business Administration, Economics, Mathematics.

Scientific Applications Programming Sequence:

Designed for the student who will seek a position as an applications programmer or programmer analyst in a scientific, engineering, or mathematics oriented organization. 36 hours required. Programming core (12 hours): MAT 164, 168, 169, 384; or equivalent. Systems and design core (3 hours): MAT 363. Organization structure (3 hours): MAM 220 or BEA 111 or INF 329. Practical Experience (3 hours): MAT 391 or 398. Other requirements (15 hours): At least two of MAT 283, 288, 364, 383, 389 (On-Line Systems), 389 (Minicomputer Applications), 389 (Systems Programming); nine additional hours approved by an ACS adviser. Suggested application areas (minor or second major) include Biology, Chemistry, Economics, Mathematics, Physics, Industrial Technology.

Systems Design Sequence: Allows a strong emphasis on systems development and design. 36 hours required. Programming core (9 hours): Either the sequence MAT 168, 169, or the sequence ACC 266, 366; and MAT 384; or equivalent. Systems and design core (9 hours): MAT 363, 364, 368. Organization structure (3 hours): MAM 220 or BEA 111 or INF 329. Practical experience (3 hours): MAT 391 or 398. Other requirements (12 hours): At least two of MAT 284, 389 (Data Base), 389 (On-Line Systems), 389 (Minicomputer Applications), ACC 367, ACC/MAM 368; six additional hours approved by an ACS adviser. Suggested application areas (minor or second major) include Accounting, Allied Health (Medical Records Administration), Business Administration, Economics, Library Science, Mathematics.

Other Programs: The ACS major is designed to serve the needs of all students who wish to apply computer and systems techniques to the solution of real world problems. As new areas are impacted by the computer, students may have needs not adequately met by the existing sequences. Until new sequences are identified, interested students may apply to the University's Contract Major program. Inquire at the ACS office.

MINOR IN APPLIED COMPUTER SCIENCE

Application Programming Sequence: 24 hours required. Programming core (9 hours): Either the sequence MAT 168, 169, 384 or the sequence ACC 260, 266, 366; or

equivalent. Systems and design core (6 hours): One of AHP 300, ACC 361, 362, INF 345, MAT 363; and MAT 364. Organization structure (3 hours): MAM 220 or BEA 111 or INF 329. Electives (6 hours): Chosen from a list established by ACS and the major department.

Systems Design Sequence: 24 hours required. Programming core (6 hours): Either the sequence MAT 168, 169 or the sequence ACC 260, 266; or equivalent. Systems and design core (9 hours): MAT 363, 364 and one of ACC 361, 362, 367, ACC/MAM 368, AHP 300, INF 345. Organization structure (3 hours): MAM 220 or BEA 111 or INF 329. Electives (6 hours): Chosen from a list established by ACS and the major department.

Special Application Sequence: 24 hours required. For students interested in applying the computer in an area or in a way not covered adequately by one of the other sequences. A program of study must be approved in advance by an adviser from ACS and the student's major adviser. The approved minor program must include a two-semester sequence in a programming language and an appropriate systems or research methods course.

Computer and Systems Courses: The following courses at ISU involve substantial computer or systems work. Each course number is followed by the name of the department(s) under which the student may register for the course. These courses (except for the 89's) and their descriptions are listed with the respective departments.

- 140 (INF) INTRODUCTION TO THE COMPUTER WORLD 3**
Not for credit if had ACC 160, 260, INF 340, MAT 164, 168.
- 160 (ACC) COMPUTER PROGRAMMING FOR BUSINESS 3**
HS algebra. Not for credit if had MAT 164.
- 164 (MAT) INTRODUCTION TO FORTRAN PROGRAMMING 3**
Two years of HS algebra. FORTRAN language used. Formerly MAT 168.5.
- 168 (MAT) INTRODUCTION TO COMPUTERS AND PROGRAMMING 3**
Two years of HS algebra. PL/1 language used.
- 169 (MAT) INFORMATION PROCESSING USING PL/1 3**
MAT 168. Formerly MAT 289.05.
- 260 (ACC) BUSINESS DATA PROCESSING 3**
ACC 131. COBOL language used.
- 265 (MAT) JOB CONTROL LANGUAGE 1**
A two semester sequence in a programming language. Not for credit if had MAT 384. Formerly MAT 289.03.
- 266 (ACC) INTERMEDIATE COBOL 3**
ACC 260. Overall GPA of 2.5 or an A or B in ACC 260.
- 272 (MAT) COBOL AS A SECOND LANGUAGE 4**
An A or B in MAT 169 or equiv. Not for credit if had ACC 266 or 366.
- 274 (MAT) PL/1 AS A SECOND LANGUAGE 4**
An A or B in either ACC 266 or MAT 164 or equiv. Not for credit if had MAT 168 or 169. Formerly MAT 289.03.

- 283 (MAT) ASSEMBLER LANGUAGE PROGRAMMING 3**
Knowledge of a compiler level programming language.
- 284 (MAT) DATA STRUCTURES 3**
An A or B in PL/1 or MAT 283.
- 288 (MAT) ADVANCED ASSEMBLER LANGUAGE PROGRAMMING 3**
MAT 283.
- 289 (IT) STANDARD OPERATOR TRAINING 2**
Knowledge of a compiler level language and cons inst. Formerly MAT 289.02.
- 289 (ACC) RPG II 3**
HS algebra.
- 300 (AHP) MEDICAL INFORMATION SYSTEM DESIGN 3**
AHP 220, ACC 260; AHP major or cons inst.
- 319 (INF, IT) COMPUTER GRAPHICS 3**
Materials charge.
- 321 (BEA) PRACTICUM IN DATA PROCESSING 3**
ACC 260.
- 340 (INF) COMPUTER APPLICATIONS IN EDUCATION 3**
Cons inst.
- 345 (INF) INTRODUCTION TO LIBRARY TECHNOLOGY 3**
- 361 (ACC) BUSINESS SYSTEMS ANALYSIS FOR COMPUTER PROGRAMMING 3**
ACC 132, and ACC 160 or 260. Overall GPA 2.5 or an A or B in ACC 160 or 260.
- 362 (ACC) ADVANCED BUSINESS SYSTEMS ANALYSIS 3**
ACC 361. An A or B in ACC 361 or an overall GPA of 2.5, or cons dept chrpn.
- 363 (MAT) INTRODUCTION TO SYSTEMS DEVELOPMENT 3**
A two semester sequence in a programming language. Formerly MAT 389.26.
- 364 (MAT) SOFTWARE DESIGN 3**
MAT 384 or cons inst. Formerly MAT 389.19.
- 366 (ACC) ADVANCED BUSINESS DATA PROCESSING 3**
ACC 266 or cons inst. Overall GPA of 2.5 or an A or B in ACC 266.
- 367 (ACC) COMPUTER APPLICATIONS FOR BUSINESS DECISION MAKING 3**
9 hours of ACC, including 160 or 260; 12 hours FAL or MAM including MAM 100 or MAT 250. Overall GPA of 2.5 or an A or B in ACC 160 or 260, or cons dept chrpn.
- 368 (ACC, MAM) BUSINESS SIMULATION 3**
MAM 100, ACC 160 or equiv.
- 368 (MAT) TOPICS IN SYSTEMS DESIGN 3**
MAT 363, 364.
- 383 (MAT) PRINCIPLES OF OPERATING SYSTEMS 3**
MAT 283, 284.

384 (MAT) EXTERNAL DATA STRUCTURES 3

A two semester sequence in a programming language or MAT 284 or cons inst.

386 (INF, IT) TECHNICAL COMPUTER PROGRAMMING 3

Materials charge.

388 (PHY) PHYSICS AND COMPUTERS 3

MAT 164 or 168, 115 or 135; PHY 109 or 111.

389 (MAM) MANAGEMENT INFORMATION SYSTEMS 3

MAM 220, 230, FAL 240.

389 (MAT, INF) INTRODUCTION TO ON-LINE SYSTEMS 3

MAT 363, 384 or equiv.

389 (MAT, IT) MINICOMPUTER APPLICATIONS 3

MAT 363, 384 or equiv.

389 (MAT) INTRODUCTION TO SYSTEMS PROGRAMMING 3

MAT 287.

391 (MAT) DIRECTED PROJECT IN APPLIED COMPUTER SCIENCE 1-6

MAT 363, 384 or equiv and cons ACS director. May be repeated. Max eight hours. By application only. Formerly MAT 389.20.

398 (MAT) PROFESSIONAL PRACTICE: INTERNSHIP IN APPLIED COMPUTER SCIENCE 1-6

Cons ACS director. May be repeated. Max eight hours. By application only.

Contract Major and Minor Programs

Program Coordinator: Eugene Jabker, 414 Hovey Hall.
Degrees Offered: B.A., B.S. Further Information: Office of Undergraduate Instruction (Hovey 414). Liberal arts program only; no teacher education program available. The Arts and Sciences Contract Major and Comprehensive Major requirements are described under the College of Arts and Sciences degree programs.

The individualized contract major and minor allow for programs which cannot be accommodated by existing, regular majors and minors. Admission requirements are:

1. Admission to the major or minor may be requested after the completion of 15 semester hours of coursework and usually prior to the completion of 75 semester hours. Beginning freshmen should enroll as General Students or departmental majors prior to application for admission to the contract major or minor. Transfer and readmitted students with more than 15 hours of acceptable coursework may request admission immediately.

2. An overall grade point average of 2.0 or higher is required. In lieu of a 2.0 grade point average, written recommendations of one faculty member from two different departments must be submitted.

3. A proposed plan of study must be approved by the faculty adviser, the Individualized Contract Major Committee, and the Dean of Undergraduate Instruction. All subsequent changes in the approved plan of study must be authorized in advance by the Dean of Undergraduate Instruction.

4. If a student has more than 75 semester hours of credit prior to seeking admission, at least 21 semester hours of coursework identified as part of the Contract Major (or 12 hours identified as part of the Contract Minor) must be taken after admission to the program.

CONTRACT MAJOR

— 36 hours required in addition to University Studies requirements.

— Approved plan of study with courses from at least two academic departments.

CONTRACT MINOR

— 18 hours required in addition to University Studies requirements.

— Approved plan of study with courses from at least two academic departments.

Ethnic and Cultural Studies Programs

Program Coordinator: William Colvin, 206 Center for the Visual Arts.

No major offered. Further Information: Coordinator of Ethnic and Cultural Studies.

MINOR IN ETHNIC AND CULTURAL STUDIES

— 24 hours required from any courses which apply to the minor. Student elects one of the six areas of emphasis listed below.

1. **Afro-American Arts:** Required courses: ART 242; THE 146; MUS 153; at least one course in Afro-American History; at least one course in Afro-American literature; at least two courses from Black Art and Black Music. Total of 24 hours required.
2. **Afro-American Studies:** Required courses: ART 277 or 278; MUS 153; SOA 264 and 384; at least two courses in Afro-American history; at least one course in Afro-American literature. Total of 24 hours required.
3. **Bilingual Studies:** Students interested in Bilingual Education at the Elementary School level should major in Elementary Education and meet the bilingual/bicultural education certification requirements specified in the Elementary Education program description. Students interested in Bilingual Studies meet the requirements specified here. Required courses: FOR (Spanish) 189 (Chicano Studies), 309, 320; ENG 243, 389 (Teaching English as a Foreign Language); C&I 306. Also an additional 3 hours from among: FOR (Spanish) 218, 242, 304, 331, 332, 335; ENG 365; SOA 131, 264; PSY 131; GEO 230; HIS 261, 262, 371; POS 222; ART 242, 373. Also, an additional 3 or 4 hours from among the courses listed above or from among: ENG 241, 341; PSY 389 (Psycholinguistics). The 24 hours of courses in this program may not count toward both the student's major and the minor, although they may be counted toward meeting specific requirements. All students in this program should enrich their backgrounds by having as much contact as possible with the group they are planning to teach—e.g., by being active in community activities in areas where that group resides and by visiting that area or country where the language is spoken.
4. **Chicano and Puerto Rican Studies:** Required courses: ART 242; SOA 264; FOR 189 (Chicano Studies); Spanish 304. Strongly recommended courses include FOR (Spanish) 289 (Dialects), HIS 289 (Chicano History), and HIS 289 (Modern Mexico). Total of 24 hours required.

5. **General Ethnic and Cultural Studies:** Required courses: ART 277 or 278; MUS 153 or 154; SOA 264; at least one course in HIS and one course in ENG from the list of courses which apply to the minor below. Total of 24 hours required. Students may elect the General Ethnic and Cultural Studies area of emphasis to pursue a program not available in one of the other programs listed. Courses included in such a program must be approved by the Coordinator of Ethnic and Cultural Studies.
6. **Women's Studies:** Required courses: Minimum of 18 hours or total of 24 hours from among the following courses: IDS 120, 389 (Interdisciplinary Research in Women's Studies); BSC 189 (Women's Health Problems); ENG 160; HIS 250; HPR 289 (Well Being and Health of Women); IT 163; PHI 289 (Feminism); POS 390; PSY 123, 305; SOA 123, 289 (Women as a Minority), 341, 342, 366. A minimum of 18 hours is required in the above courses or appropriate 189, 289, and 389 courses. If the student elects fewer than 24 hours from this list of courses, the remainder must be selected from the list of courses below which apply to the Ethnic and Cultural Studies minor. Courses included in the minor must be approved by the Coordinator of Women's Studies, Dr. Patricia Chesebro, Department of Psychology.

Courses which apply to Ethnic and Cultural Studies Minor: ART 242, 277, 278; C&I 232, 311, 312, 332 (students who plan to teach in an urban setting are advised to take these C&I courses); ENG 235, 365; FOR 189 (Chicano Studies) and Spanish 115, 116, 189 (Spanish for Bilinguals in English), 289 (Dialects), 304, GEO 336; HPR 163, 164, 167; HIS 250, 257, 258, 261, 262, 289 (Modern Mexico), 289 (Chicano History), 322, 371; MUS 139.05 and 139.10, 153, 154, 239.05 and 239.10; POS 222, 223, 246, 381, 391; PSY 131, 305; SOA 131, 261, 264, 272, 282, 342, 384, INF 175; THE 146, 189 (Afro-American Theatre Problems).

University-Wide Courses

GENERAL OFFERINGS

With the exception of Professional Practice (398) and Student Teaching (399), these courses may be offered by any department of the University. Specific departmental offerings will be listed by topic or area in the *Class Schedule* booklet available each semester. Student Teaching (399) for all areas available is listed separately in the *Class Schedule*; Professional Practice (398) for all areas available is listed by department in the *Class Schedule*.

189, 289, 389 SELECTED STUDIES 1-6

Experimental and interdepartmental courses providing content not offered within the framework of courses approved for inclusion in the Undergraduate Catalog. Descriptions of the courses offered each semester are provided in the back pages of the *Class Schedule* booklets.

193, 293, 393 WORKSHOP 1-6

Max of six hrs may be applied toward graduation.

Workshop opportunities are provided for the purpose of permitting students to work on special problems not covered in any one course offered by the University. Topics for investigation by workshop participants are limited to areas in which the University is able to provide adequate workshop staff.

287 INDEPENDENT STUDY 1-6

Max of six hrs may be applied toward graduation.

Cons dept chrpn., permission of supervisor.

Intensive work in a special area of the student's interest. Each individual project is to culminate in a comprehensive written report and/or examination. Open only to students who are not on academic probation and who have demonstrated ability to profit from independent study.

291 SEMINAR: UNDERGRADUATE TEACHING ASSISTANTS 1-3

Official designation as an Undergraduate Teaching Assistant (UTA). Departmental permission.

Supervised examination of issues related to the Undergraduate Teaching Experience. Seminar requires time beyond the UTA work experience. Three hours maximum credit may be applied toward graduation.

299 INDEPENDENT HONOR STUDY 1-6

Open only to students who have achieved superior academic records and who have demonstrated ability to profit from independent study. Max of six hrs may be applied toward graduation. Cons inst, dept chrpn and dir of Honors.

Intensive work in a special area of the student's major or minor. Each individual project is to culminate in a comprehensive written report and/or examination.

397 INSTITUTE 1-9

Federal and state-sponsored institutes or similar short-term programs requiring treatment of subject matter of a special nature or for special groups.

398 PROFESSIONAL PRACTICE 1-16

Cons. dept chrpn. Max of sixteen hrs may be applied toward graduation. For undergraduate credit only.

Supervised work experiences in local, state, national, and international businesses, agencies, institutions, and organizations.

399 STUDENT TEACHING 1-10 F.S

(or C&I 253 for elementary education majors)

Prerequisites for high school student teaching PSY 215 and C&I 216, or the completion of the required prerequisites in C&I 200; for junior high school student teaching, C&I 290; for student teaching in special education, one of C&I 270, 280, or 290; for student teaching in elementary education, one of C&I 270, 280, or 290, or satisfactory completion of C&I 252. Satisfactory preparation in the area of specialization. Approval of the Director of Clinical Experiences. Fifteen semester hours of work (or its equiv.) at Illinois State University. For further information and other regulations, see REQUIREMENTS FOR STUDENT TEACHING in the section on TEACHER EDUCATION.

Directing the learning of pupils; participating in school and community activities; assuming full responsibility for a group of learners under the supervision of an expert teacher. Assignments are made on the basis of the student's area of specialization. High school student teaching assignments include work in special methods in the subjects taught. The student's transcript indicates the area in which student teaching was completed.

Interdisciplinary Studies

The following courses have been listed in previous Catalogs as University Studies (UST) courses, but are now identified as Interdisciplinary Studies (IDS) courses.

**100 HUMANITIES I:
EUROPEAN CIVILIZATION
TO 1700 5 US-B F**

An interdisciplinary course examining the relationships of European history, literature, art and music from ancient times to the 18th century.

**101 HUMANITIES II:
EUROPEAN CIVILIZATION
SINCE 1700 5 US-B S**

An interdisciplinary course examining the relationships of European history, literature, art, and music from the 19th century to the present.

102 HONORS COLLOQUIUM 3 US-E S
Interdisciplinary, for students in Honors Program. Weekly sessions presented by specialists on related topics explore a semester theme.

103 ENGLISH HERITAGE 4 US-B F
An interdisciplinary survey of English civilization from the later Middle Ages to the middle of the eighteenth century.

**104 BRITISH
CIVILIZATION 4 US-B S**
An interdisciplinary survey of British civilization from the middle of the eighteenth century to the present.

**105 BLACKS AND WHITES:
A STUDY OF INTERRACIAL
DYNAMICS 1 US-D F,S**
Cons inst.

An experimental and theoretical course for students wishing to increase awareness and understanding and improve black/white communication.

106 CAREER CHOICE 1 F,S
Rec freshman only.

Introduction to theory of career decision making. Laboratory in the application of skills and strategies to individual career choices.

120 WOMEN TODAY 3 US-E F,S
Introduction to the concerns and problems of women in today's society. Historical roots and viable alternatives to the present culture will be discussed.

187 IUS INDEPENDENT STUDY 1-3
Only for students pursuing the Independent University Studies option who wish to undertake independent study projects on an interdepartmental and off-campus basis.

**222 NATIONAL STUDENT
EXCHANGE 1-16 F,S**
National Student Exchange Program study up to year at another university; eligible if sophomore, junior, G.P.A. 2.5.

287 IUS INDEPENDENT STUDY 1-3 F,S
Only for students pursuing the Independent University Studies option who wish to undertake independent study projects on an interdepartmental and off-campus basis.

**300 WOMEN AND RELIGION: CATHOLIC,
PROTESTANT AND JEW 2-3 S**
Undergraduate credit only.

An analysis of the status of Catholic, Protestant and Jewish women. Emphasis on women in religion today, but includes historical perspectives through selected religious writing. A research paper or project is completed for 3 hours credit.

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College of Applied Science and Technology

Dean: Jack Razor, 124 Turner Hall.

The Departments of Agriculture; Corrections; Health, Physical Education, Recreation and Dance; Home Economics; Industrial Technology; and the Center for Allied Health Professions constitute the College of Applied Science and Technology. Undergraduate and graduate programs of the College are designed to prepare students for positions as professional educators in all types of educational institutions as well as for vocational and technical careers in business, industry, and government.

Agriculture

Chairperson: George W. Forgey, 238 Turner.

Faculty: Professors: Bristol, Culver, Forgey, Fuess, Henry, James, Moore, Sagebiel, Woods. Associate Professor: Chudimsky. Assistant Professors: Balbach, Guthrie, Whitacre. Instructor: Taylor. Lecturer: Sigler. Adjunct Faculty: Butz, Turner.

Agribusiness Program

Degree Offered: B.S. Further Information: Department of Agriculture. No teacher education program offered; see Agriculture for teacher education program.

COMPREHENSIVE AGRIBUSINESS MAJOR

- 55 hours required, including 36 hours in Agriculture and 19 hours in the College of Business and/or Department of Economics.
- Required courses: AGR 110, 130, 150, 170; ECO 100, 101; One approved course in MAT.

The student must complete a minimum of 12 semester hours in Agricultural Economics courses selected from AGR 213, 214, 215, 216, 314, 316, 318, 398 and a minimum of 19 hours in the College of Business and/or Department of Economics, which includes ECO 100 and 101. AGR 295 and 396 do not count toward this major.

Horticulture Sequence: 55 hours required, including 36 hours in Agriculture and 19 hours in the College of Business and/or Department of Economics. Required Courses: AGR 110, 130, 150 (or BSC 121), 157; ECO 100, 101; ACC 131; FAL 110; one approved course in MAT; 5 hours of Chemistry (CHE 110 and 112 or 140); 15 hours in Horticulture Science courses including AGR 252 with remainder selected from among AGR 189 (Greenhouse Management), 289 (Home Landscape Design and Construction), 289 (Plants: Identification and Interior Design Use), 289 (Woody Plants: Identification and Landscape Value), 352, 355 and 356; 7 hours of AGR electives. AGR 190, 295, and 396 do not count toward this sequence. Recommended MAM electives are MAM 230, 233, and 235.

Agriculture Programs

Degree Offered: B.S. Further Information: Department of Agriculture. Teacher education and non-teaching programs offered. Teacher education students should elect the Agricultural Education sequence under the comprehensive major.

COMPREHENSIVE AGRICULTURE MAJOR

Production Agriculture Sequence: 55 hours in Agriculture required. Required courses: AGR 110, 130, 150,

157, 170; BSC 121 or 190; 5 hours of Chemistry. Required hours in Agriculture courses: 11 in Agronomy, 8 in Agricultural Economics, 13 in Animal Science, 6 in Agricultural Mechanics, 17 in Agriculture electives. AGR 295 and 396 do not count toward this sequence.

Agricultural Education Sequence: 55 hours in Agriculture required. Required courses: AGR 110, 130, 150, 157, 170, 190, 280, 295, 396; BSC 121 or 190; 5 hours of Chemistry. Required hours in Agriculture courses: 11 in Agronomy, 8 in Agricultural Economics, 13 in Animal Science, 9 in Agricultural Mechanics, 10 in Agricultural Education, 4 in Agriculture electives. C&I 231 is not required of teaching majors in this program. Students who complete this program will be certified for teaching agriculture occupations programs (vocational agriculture).

Agricultural Science Sequence: 55 hours required, including 36 hours in Agriculture and 19 hours in Biological Sciences, Chemistry, Physics, and/or Mathematics. Required courses: AGR 110, 130, 150, 170; BSC 121 or 190; 9 hours of Chemistry. The student must complete at least 20 hours in either Animal Science or Agronomy and a minimum of 19 hours in Biological Sciences, Chemistry, Physics, or Mathematics, which includes BSC 121 or 190. AGR 295 and 396 do not count toward this sequence.

MAJOR IN AGRICULTURE

- 36 hours in Agriculture required.
- Required courses: AGR 110, 130, 150, 170; BSC 121 or 190; 5 hours of Chemistry.
- In addition, at least one course in each of three of the specialized areas of Agricultural Economics, Agricultural Mechanics, Agronomy, and Animal Science.

MINOR IN AGRICULTURE

- 24 hours in Agriculture required.
- Required courses: AGR 110, 130, 150, 170.

Agriculture Courses

In meeting program requirements in Agriculture, the student should note that the courses are considered in areas, as follows:

General courses: 100, 101, 102, 103, 302, 303.

Agricultural Economics: 110, 213, 214, 215, 216, 314, 316, 318, 398.

Agricultural Education: 190, 295, 396.

Agricultural Mechanics: 130, 231, 232, 234, 235, 240, 340, 345.

Agronomy: 150, 157, 250, 251, 252, 272, 352, 355, 356, 357, 360.

Animal Science: 170, 171, 272, 274, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 288, 372, 373, 374, 375.

100 AGRICULTURE OF DEVELOPING COUNTRIES 2 US-E F,S

Creative approaches to understanding the role of agriculture in developing countries. Analysis of agricultural problems, policies and processes.

101 MAN AND FOOD 3 US-E F,S
Fundamental knowledge concerning the role of food in the life of man and its significance for the past, present and future.

102 LANDSCAPING AND MAN 3 US-E F
Not for credit maj.

Basic knowledge and appreciation of landscaping and its importance to man in the past, present, and future.

103 HOME VEGETABLE**PRODUCTION 2 US-E F,S**

A survey of the principles and practices of vegetable production. Crop selection, soil fertility, weed and disease control, and management of individual crops are discussed.

110 INTRODUCTORY AGRICULTURAL**ECONOMICS 3 US-E F,S**

Fundamental principles of economics, applied to agriculture, agriculture finance, prices, taxation, marketing and land use.

130 INTRODUCTION TO AGRICULTURAL**MECHANICS 3 F,S***Lecture and laboratory.*

Place of mechanics in agriculture. Examples, problems, discussions and laboratory exercises in present and future mechanics applications.

150 INTRODUCTION TO PLANT**SCIENCE 4 US-E F,S**

Fundamentals of plant science; importance, classification, distribution and production practices of the major crops of the world.

157 SOIL SCIENCE 4 F,S*Five hours of CHE. Lecture and laboratory.*

Origin and formation, physical and chemical properties, moisture relationships, liming and fertilizing soils. Chemical and physical tests of soils.

170 INTRODUCTION TO ANIMAL**SCIENCE 4 US-E F,S***Lecture and laboratory.*

Breeding, selection, genetics, nutrition, physiology and production of farm animals. Fundamentals of animal science.

171 LIVESTOCK FEEDING**PRINCIPLES 3 F,S***AGR 170.*

Classes of feeds, nutrients, their functions in the animal body, choice of feedstuffs and balancing of rations.

190 INTRODUCTION TO AGRICULTURAL**EDUCATION 2 F,S***Field trips required.*

Introduction to agricultural occupations teaching profession; overview of the total agricultural program; opportunities and responsibilities of the teacher and students.

213 FARM MANAGEMENT 3 F,S

Factors of production, such as equipment, labor distribution, cropping systems, and soils; organization and operation; types of farming.

214 AGRICULTURE MARKETING 3 F,S

Markets, price-making forces, reasons for existing practices, marketing services, and cooperative marketing.

215 AGRIBUSINESS OPERATIONS 2 F,S

Procedures and methods of profitable operations used by agricultural business; lectures and discussions pertaining to the "world of work" by successful agribusiness leaders.

216 FARM ACCOUNTING 3 F,S

Standard farm business accounting methods and procedures, financial measures of success, inventories, depreciation, net worth, income tax, budgeting and cash flow, and business analysis.

231 AGRICULTURAL CONSTRUCTION AND MAINTENANCE 3 F,S*AGR 130, Lecture and laboratory.*

Selection, use and maintenance of hand and power tools

and equipment for construction and maintenance in agriculture, shop organization; shop safety.

232 AGRICULTURAL POWER UNITS AND MACHINERY 3 F,S*Lecture and laboratory.*

Principles of single and multiple cylinder engine operation. Selection, adjustment, operation and maintenance of field machinery.

234 SOIL AND WATER**CONSERVATION 3 F,S***Lecture and laboratory. Field trips required.*

Drainage, soil erosion control, water conservation on farms; planning, materials, construction, repair, and adaptation of structures to farm needs.

235 FARM UTILITIES 3 F,S*Lecture and laboratory.*

Application of electricity for light, heat, and power; principles of operation, selection, installation of electrical equipment. Water supply, sewage systems.

240 AGRICULTURAL POWER**SYSTEMS 3 F,S***AGR 232. Lecture and laboratory.*

Selecting, analyzing, maintaining spark-ignition and diesel tractors. Principles of hydraulics, power transmission, and electrical regulation systems.

250 GRAIN AND SOYBEAN**PRODUCTION 3 F***AGR 150. Lecture and laboratory.*

Principles of planting, cultivating and harvesting grain and soybeans; control of diseases, insects, pests and weeds.

251 FORAGE CROP PRODUCTION 3 S*AGR 150.*

Characteristics, utilization and production of principal forage plants. Recent literature in forage management reviewed.

252 ORNAMENTAL**HORTICULTURE 3 F***AGR 150 or BSC 121.*

Selecting, propagating and managing ornamental plants.

272 AGRICULTURAL GENETICS 3 F,S*BSC 121 or 190, AGR 170 and 150, or cons inst.**Lecture and laboratory.*

Heredity, variation and development of domesticated plants and animals. Mendelian genetics, mutations, linkage, quantitative inheritance and population genetics.

274 DAIRY SCIENCE 4 S*AGR 170, 171 or cons inst. Lecture and laboratory.**Field trips required.*

The dairy industry, breeds, selection, judging, care and management of dairy cattle, quality milk production, milk products and milk testing.

276 PORK PRODUCTION 3 F,S*AGR 170, 171. Lecture and laboratory.*

Breeds, care and management of breeding herd; care and feeding of pigs, selecting swine for breeding and marketing.

277 SHEEP PRODUCTION 3 F,S*AGR 170, 171. Lecture and laboratory.*

Breeding, feeding and management practices essential for economical production of the farm sheep flock.

278 BEEF PRODUCTION 3 S*AGR 170, 171. Lecture and laboratory.*

Beef cattle industry, economics, care, management and production skills involved in cow-calf and finishing cattle operations.

- 279 POULTRY PRODUCTION** 3
AGR 170. Lecture and laboratory.
Breeding, feeding and management practices essential for the poultry business.
- 280 LIVESTOCK SELECTION** 3 S
Laboratory. Field trips required.
Fundamentals of livestock and dairy selection; relation to production, marketing and showing.
- 281 DAIRY CATTLE SELECTION** 2 F
AGR 280 or cons inst. Laboratory.
Specialized training in evaluating dairy cattle. Comparative terminology, decision making and presentation of oral reasons. Field trips to dairy farms.
- 282 LIVESTOCK HEALTH AND DISEASES** 3 F
BSC 190, AGR 170 or cons inst.
Animal physiology, anatomy, sanitation and diseases. Prevention and control of diseases of domesticated species of livestock.
- 283 ARTIFICIAL INSEMINATION OF FARM ANIMALS** 3 F,S
Lecture and laboratory. Field trips required.
Principles of artificial insemination and factors affecting conception in natural and artificial breeding.
- 284 LIVESTOCK PRODUCTION SKILLS** 3 F
AGR 170 or cons inst. Lecture and laboratory.
A study and mastery of skills required in livestock production and different methods and tools used to perform these skills.
- 285 MEAT SCIENCE** 3
Lecture and laboratory.
Comprehensive treatment of the meat industry and presentation of basic facts about one of our most important food products.
- 286 BEHAVIOR OF DOMESTIC ANIMALS** 3 US-E S
Behavioral patterns and systems, group formations, socialization, physical environment, genetic and physiological factors as they relate to domestic animals.
- 288 ADVANCED LIVESTOCK SELECTION** 3 F
AGR 280. Laboratory. Field trips required.
Judging various species of livestock in relation to their functions in show ring and market and presentation of oral reasons.
- 295 SUMMER EXPERIENCE IN AGRICULTURAL EDUCATION** 3 SUMMER ONLY
This course cannot be used as an elective in technical agriculture.
Experience in summer duties with an agricultural occupations teacher in high school; planning and orienting the year's activities.
- 302 SPECIAL PROBLEMS IN AGRICULTURE** 1-3 F,S
Comprehensive maj, maj, or min in AGR, GPA 2.5. Cons inst. and dept chrpn. May be repeated. Max 6 hrs.
Special work in research interests of student and staff. Projects must be approved by the staff member and the chairperson of the department.
- 303 SEMINAR IN AGRICULTURE** 1 F,S
Senior or graduate standing.

- 314 GRAIN MARKETING** 2 F
AGR 214.
Economics and marketing problems in grain industry. Special emphasis on futures marketing.
- 316 LIVESTOCK MARKETING** 2 S
AGR 214.
Economic principles applied to marketing of livestock and livestock products. Consideration given to producers, processors, and distributors.
- 318 AGRICULTURAL FINANCE** 3 F,S
AGR 216 or ACC 131.
The principles of agricultural finance including the capital requirements, the sources of credit, and the optimum uses of capital.
- 340 EQUIPMENT FOR PRODUCING AND HANDLING AGRICULTURAL PRODUCTS** 3 F,S
AGR 130. Lecture and laboratory. Field trips required.
Selection, design, operation, adjustment and maintenance of machinery and equipment utilized in producing, storing, and processing agricultural products.
- 345 AGRICULTURAL ACCIDENT PREVENTION** 3 F,S
Also offered as IT 373.
Major problems of accident causation and prevention applicable to agriculture and the need for farm safety education.
- 352 TURF MANAGEMENT** 3
AGR 150 and BSC 121.
Principles and practices used in management of turf-grasses, residential and recreational turf.
- 355 PLANT BREEDING** 3 S
AGR 272.
Breeding procedures and techniques used in developing new varieties of field crops.
- 356 PLANT PROPAGATION** 3
AGR 150, or BSC 121. Lecture and laboratory.
Basic principles and commercial practices involved in sexual and asexual propagation of agricultural plants.
- 357 SOIL FERTILITY AND FERTILIZERS** 4 F
AGR 157, Lecture and laboratory. Field trips required.
Fundamental concepts of soil fertility and fertilizer manufacturing. Plant nutrition, factors affecting plant growth, soil-plant relationships, and macro- and micro-nutrients.
- 360 CROP CONDITIONING AND STORAGE** 3 F
AGR 250 and 5 hrs. CHE, or cons inst.
A comprehensive study of the chemical, physical and physiological aspects of crop conditioning and storage with emphasis on soybeans and grain crops.
- 372 LIVESTOCK BREEDING** 3 S
AGR 272 or BSC 319.
Reproduction and principles of heredity and their application to livestock breeding; population genetics, inbreeding, relationship, outbreeding and selection.
- 373 REPRODUCTIVE PHYSIOLOGY AND MILK SECRETION** 3 S
AGR 170, 272.
Reproduction in livestock, anatomy of the reproductive and hormonal systems, physiological and hormonal aspects of lactation.

374 DAIRY CATTLE FEEDING AND MANAGEMENT 3 F*AGR 274. Field trips required.*

Feeding and management of dairy cattle as they relate to an economic dairy farm operation.

375 ANIMAL NUTRITION 3 F*AGR 170, 171.*

Science of animal nutrition; special attention to recent discoveries pertaining to the protein, mineral and vitamin requirements of livestock.

396 METHODS AND PROCEDURES IN AGRICULTURAL EDUCATION 5 F,S*Field trips required.*

Procedures in planning, conducting, evaluating and teaching preparation necessary for a complete program in agricultural education.

398 PROFESSIONAL PRACTICE:**INTERNSHIP IN AGRIBUSINESS 1-3***8 hours of agricultural economics and/or horticulture, GPA of 2.5, and cons inst and dept chrpn.*

Supervised on-the-job experience with an agribusiness firm. Forty-five hours work following an approved training program/1 hour credit.

Allied Health Professions

Director: Charles T. Spencer, 103 Moulton Hall.

Faculty: Associate Professors: Rowe, Spencer. Assistant Professors: Beck, Cohen, Corsaut, Gruber, Hallstein, Kasa, Livingston, Parker, Russelmann, Seddon. Lecturers: DiClaudio, Tholen, Adjunct Faculty: Chow, Folkens, Taraska.

Environmental Health Programs

Degree Offered: B.S. Further Information: Center for Allied Health Professions. No teacher education program.

COMPREHENSIVE ENVIRONMENTAL HEALTH MAJOR

- 55 hours required excluding hours required in University Studies or general electives.
- Required courses (36 hours): AHP 150, 389 (Advanced Environmental Health, 3 hours), 398; BSC 190, 260, 289 (Epidemiology, 3 hours); MAT 110; PSY 340 or SOA 240 or C&I 340; HPR 289 (Health Education and Environmental Quality, 3 hours). In addition, Chemistry through Organic Chemistry (typically CHE 140, 141, 220), PHY 105, INF 110, ENG 101, ENG 349, HPR 182 or BSC 181, MAT 107 or equivalent, MAT 108 or equivalent, PSY 111 or SOA 106 must be completed as either University Studies or as general electives. Students must plan their specific program of study with a faculty member of the Environmental Health program in the Center for Allied Health Professions.
- Elect at least 19 hours from among the following courses: AHP 151, 253, 254, 287, 351, 389 (Advanced Occupational Health, 3 hours), 389 (Environmental Health Administrative Practice, 3 hours), BSC 360, CHE 280.
- Strongly recommended courses: BSC 261; CHE 215, 242; MAT 115, 116; PHY 108, 109; GEO 202, 205.

Graduates of the program are eligible for and are expected to take the registration examination for sanitarians, pursuant to Illinois state law.

MAJOR IN ENVIRONMENTAL HEALTH

Consideration is currently being given to deletion of this program. Meanwhile, students are advised to enroll in the Comprehensive Environmental Health Major.

MINOR IN ENVIRONMENTAL HEALTH

— 12 hours from among the specific courses listed below required. Note that several of these courses have Biology, Chemistry, and Physics prerequisites; probable prerequisites include BSC 190, 260, CHE 140, 141, 220, PHY 105, or the equivalents.

— Required 12 hours selected from among AHP 150, 151, 351, 389 (Advanced Environmental Health), BSC 360, CHE 280.

Medical Record Administration Program

Degree Offered: B.S. Further Information: Center for Allied Health Professions. Non-teaching program only.

COMPREHENSIVE MEDICAL RECORD ADMINISTRATION MAJOR

This program must be planned in consultation with a faculty member of the Medical Record Administration Program in the Center for Allied Health Professions. Program guidelines are established by the Education and Registration Committee of the American Medical Records Association (AMRA) in collaboration with the Committee on Allied Health Education and Accreditation of the American Medical Association. Graduates of the program are eligible and are expected to write the AMRA national registration examination. Successful passing of the registration examination entitles graduates to use the designation RRA after their names.

- Required courses: AHP 100, 105, 200, 201, 202, 210, 211, 220, 230, 248, 300, 310, 348.
- Required preprofessional courses include BSC 160, 181, 182; CHE 104 or 110; and courses in statistics, data processing, and business organization and management.
- Students must have a 45 word-per-minute proficiency in typing.

Medical Technology Program

Degree Offered: B.S. Further Information: Center for Allied Health Professions. Non-teaching program only.

COMPREHENSIVE MEDICAL TECHNOLOGY MAJOR

- 45 hours of preprofessional courses as specified below plus 30 hours of clinical residency.
- Required preprofessional courses: BSC 190, 216, 260, 261, 283; CHE 140, 141, 215, 220, 242; MAT 120. Strongly recommended courses: BSC 319; PHY 105 or 108; AHP 160, 260, 261, 262.
- Required clinical residency: 30 hours of clinical residency in an AMA-ASCP approved hospital (School of Medical Technology) affiliated with Illinois State University, or other AMA-ASCP approved hospitals by special arrangements, for 12 months.

A student should plan the specific program of study in consultation with a faculty member of the Medical Technology program in the Center for Allied Health Professions. Field trips to affiliate clinical laboratories are periodically scheduled during the year as part of the preprofessional program. Seminars and independent study are available for students desiring additional study. Students must apply for acceptance into a hospital for the clinical residency. The twelve-month residency involves work in several laboratory departments and technical instruction in hematology, clinical chemistry, bloodbanking, pathogenic microbiology and other aspects of laboratory medicine. Graduates of the program are eligible, and are expected to

write the national registry examination administered by the Committee on Allied Health Education and Accreditation of the AMA-ASCP. Those who pass the registry examination are entitled to use the designation MT (ASCP) after their names.

Allied Health Professions Courses

100 INTRODUCTION TO THE HEALTH COMMUNITY 3 US-E F,S,Summer

Health care facilities and agencies, their organizational patterns, financing and regulations; the role of health related professionals, their interrelationships and responsibilities.

105 MEDICAL TERMINOLOGY 3 F,S,Summer

Study of basic language related to medical science and allied health specialties with emphasis on word analysis, construction, definitions, pronunciation, spelling and standard abbreviations.

150 INTRODUCTION TO ENVIRONMENTAL HEALTH 3 F,S

CHE 140-141, BSC 190 or equiv. Lectures, demonstrations and field trips.

Application of technical and administrative procedures to the control of man's environment, including public and private water supplies and waste facilities, food and milk protection, housing, recreational facilities, and other environmental concerns.

151 HYGIENE OF HOUSING AND RESIDENTIAL ENVIRONMENTS 2 F

Lectures and field trips.
Principles of healthful housing; standards, housing ordinances, appraisal methods, urban planning, conservation and rehabilitation of existing housing.

155 MAN AND ENVIRONMENT: A HEALTH PERSPECTIVE 3 US-E F,S,Summer

Not for credit maj min.

Provides students with a conceptual framework for the study and analysis of man-environmental health problems in daily activities.

160 INTRODUCTION TO MEDICAL TECHNOLOGY 2 F,S,Summer

Enrollment in Med Tech prgrm or cons inst.

Study of profession of Medical Technology emphasizing origin, goals, organizational structure, professional requirements, interrelationships with other professions, professional ethics, and considerations for future.

200 HEALTH INFORMATION MANAGEMENT 3 F,S

AHP 100, 105. Maj only or cons inst.

Guidelines for organization and management of medical transcription units.

201 FUNDAMENTALS OF MEDICAL SCIENCE I 3 F

AHP 100, 105. Maj only or cons inst.

Relationship between human organism and disease processes, including treatment and management of patients.

202 FUNDAMENTALS OF MEDICAL SCIENCE II 3 S

AHP 201.

Continuation of AHP 201.

210 INTRODUCTION TO MEDICAL RECORDS ADMINISTRATION 3 F,S

A survey of the history of medical records and the profes-

sion. Analysis of record content, stressing accuracy, completeness, and correlation of data. Numbering and filing systems with emphasis on retention policies and storage methods.

211 NOSOLOGY AND HEALTH DATA MANAGEMENT 3 F,S

AHP 100, 105, and PSY 340. Maj only or cons inst.

A study of disease and operative classification systems and specialized medical nomenclatures. Analysis of data collection and retrieval. Computation of hospital statistical data.

220 ORGANIZATION AND MANAGEMENT OF RECORD CENTERS 3 F,S

BUA 220. Maj only or cons inst.

Application of principles of organization and management to development and administration of health record centers.

230 LAW, HEALTH CARE, AND DOCUMENTATION 2 F,S

Federal, state, and local laws governing the preparation and use of medical records.

248 DIRECTED PRACTICE 2 F,S

Cons dir.

Student assignment to medical records centers for direct experience.

253 INTRODUCTION TO OCCUPATIONAL HEALTH 3 F

CHE 140-141, 220 or 230; HPR 182 or BSC 181. Not for credit if had AHP or IT 356. Lecture and laboratory.

Study of health problems encountered in industry and various occupations, including adverse conditions of temperature, humidity, noise, radiation, chemical and physical irritants.

254 CONTROL OF INSTITUTIONAL ENVIRONMENTS 3 S

CHE 140-141, 220 or 230; BSC 190, 260; or equivs. Lecture and laboratory. Formerly CONTROL OF HOSPITAL AND INSTITUTIONAL ENVIRONMENT.

Environmental health aspects of hospitals, nursing homes, penal institutions, schools, colleges and universities. Control of physical, chemical and microbiological hazards.

260 INTRODUCTION TO THE MEDICAL LABORATORY: IMMUNOHEMATOLOGY AND SEROLOGY 3 F,S, Summer

CHE 215, BSC 216, 260, enrollment in Med Tech prgrm or cons inst. Lecture and laboratory.

The principles and procedures of immunohematology (blood banking) and serology.

261 INTRODUCTION TO THE MEDICAL LABORATORY: HEMATOLOGY 3 F,S

CHE 215, BSC 260, enrollment in Med Tech prgrm or cons inst. Lecture and laboratory. Formerly INTRODUCTION TO THE MEDICAL LABORATORY I.

Investigation of observable phenomena that provide basis for tests used as aids to diagnoses of disease processes. Uses, misuses and limitations of laboratory equipment are considered.

262 INTRODUCTION TO THE MEDICAL LABORATORY: ANALYSIS 3 F,S

CHE 215, BSC 216, enrollment in Med Tech prgrm or cons inst. Lecture and laboratory. Formerly INTRODUCTION TO THE MEDICAL LABORATORY II.

The principles and procedures of chemical analysis of body

fluids in the clinical laboratory. The use of clinical instrumentation is stressed.

300 MEDICAL INFORMATION SYSTEMS DESIGN 3

F,S

AHP 220, ACC 260. Maj only or cons inst.

Review of basic data processing; systems analysis, medical audit; application of computer technology to the health sciences; special record systems.

310 MEDICAL RECORDS ADMINISTRATION SEMINAR 2

F,S

Maj only.

Literature survey and intensive exploration of effective methods of identifying and solving problems encountered in the administration of health record centers.

348 CLINICAL PRACTICUM AND RESIDENCY 4

F,S

Cons dir.

Rotation and project assignments in medical record centers in Illinois area health facilities.

351 ENVIRONMENTAL HEALTH SEMINAR 1

F,S

Cons dir. May be repeated once.

Supplement to formal coursework dealing with contemporary topics in environmental pollution, occupational health and institution environmental quality administration. Content will vary at discretion of instructor.

356 OCCUPATIONAL HEALTH FOR SAFETY PROFESSIONALS 3

S

Not for credit Env. Health maj min or if had AHP 253. Also offered as IT 356.

A study of the relationships, effects and methods of control of chemical, microbiological, radiological and physical hazards and stresses on the health, efficiency and well-being of employees.

398 PROFESSIONAL PRACTICE: ENVIRONMENTAL HEALTH INTERNSHIP 3-12

F,S,Summer

Nine hrs Env. Health and cons prgrm dir. May be repeated. Max 12 hrs. Formerly SUPERVISED FIELD INTERNSHIP IN ENVIRONMENTAL HEALTH.

Planned, supervised experience in a governmental, industrial or institutional organization, providing on-the-job training and introduction to a career in an environmental health program.

Corrections

Chairperson: Robert G. Culbertson, 401 Schroeder Hall.
Faculty: Associate Professor: Culbertson. Assistant Professors: Bondavalli, Ellsworth, Selke. Lecturer: Guyon.

Corrections Programs

Degrees Offered: B.A., B.S. Further Information: Department of Corrections. No teacher education program offered.

COMPREHENSIVE CORRECTIONS MAJOR

- 55 hours required.
- Required courses: COR 101, 201, 202, 203, 204, 205, 395, 397 (6 hours)*, 398 (6 hours)*, POS 215, PSY 111, SOA 106.
- 13 hours of electives selected with the approval of an academic adviser. Elective courses recommended: FAL 110, COR 300, 301, 322, 360, 389 (Organization and Management of Correctional Facilities), 389 (Correctional Case Law), 389 (Police Attitudes and Behavior);

C&I 360; POS 231, 330, 331; PSY 131, 232, 290, 301, 302, 350; SOA 221, 222, 263, 264, 332, 365, 367; SED 346, 358. Also from among elective courses recommended for students contemplating careers in institutional corrections: MAM 220, 221; IT 171, 378; PSY 230; SED 345. Also from among elective courses recommended for students contemplating careers in community-based corrections: SOA 261, 262, 323, 325, 368.

*It is the responsibility of students wishing enrollment in COR 397 and 398 to arrange personal interviews with the Corrections Internship Coordinator early in the semester immediately preceding desired enrollment for purposes of determining eligibility and discussing placement alternatives. To be eligible, the student shall have completed a minimum of 90 semester hours including all prerequisites, shall have a minimum cumulative GPA of 2.0, shall have a minimum GPA of 2.2 in Corrections courses, and shall have been off academic probation for the previous full semester.

MINOR IN CORRECTIONS

- 21 hours required.
- Required courses: COR 101, 201, 202, 204, 205.
- 6 hours of electives selected with the approval of an academic adviser.

Corrections Courses

101 INTRODUCTION TO CRIMINAL JUSTICE

SCIENCES 3 US-E F,S

Formerly INTRODUCTION TO CORRECTIONS.

Historical and philosophical foundations of current correctional practices, concepts of punishment, nature of offenders; institutional and community-based correctional programs.

201 PSYCHOLOGICAL PRINCIPLES APPLIED TO CORRECTIONAL REHABILITATION 3

F,S

COR 101, PSY 111. Also offered as PSY 201.

Psychological concepts related to the behavior and treatment of offenders.

202 COMMUNITY-BASED CORRECTIONS 3

F,S

COR 101.

Theoretical basis, current methodology, and operations: Court counselors, citizen action, half-way houses, work-release, drug abuse treatment, detention, reception and diagnostic centers.

203 PROBATION AND PAROLE 3

F,S

COR 202, cons inst.

Historical origin, legal bases, administrative structures, trends, theoretical principles, methods and techniques.

204 CRIMINAL LAW 3

F,S

COR 101. Formerly LEGAL FOUNDATIONS OF CORRECTIONS.

Survey of law relating to criminal justice with particular emphasis on criminal law. Examination of judicial opinions related to the criminal justice process.

205 CORRECTIONAL INSTITUTIONS 3

US-E F,S

COR 101.

An overview of correctional institutions focusing on historical development of inmate subcultures, custody, institutional programs, and the future of prisons.

300 EVALUATIVE RESEARCH OF PROGRAMS IN CRIMINAL JUSTICE 3

F,S

SOA 240.

Course enables student to analyze research in corrections and systematically evaluate the process and outcome of programs in the field of corrections.

301 JUVENILE JUSTICE 3

F,S

COR 101, or cons inst.

The processing and treatment of juvenile offenders. Examines the organization, operation and goals of the individuals, agencies and institutions that work with youthful offenders.

322 CORRECTIONAL COUNSELING 3

F,S

COR 201, 205. Cons inst.

Development of interpersonal communication, and decision-making skills for direct intervention with correctional clients.

360 ISSUES IN CRIMINAL JUSTICE 1-4

F,S

May be repeated once if content different.

A critical and analytical study of a contemporary issue or controversy in the field of corrections.

390 INDEPENDENT STUDY 1-6

F,S

Cons inst and dept chpm.

Allows senior undergraduate and graduate students to pursue areas of special interest independently and/or to work on special projects. In order to register, students must submit a proposal outlining the project which they wish to pursue.

395 CRIMINAL JUSTICE SEMINAR 3-4

F,S

COR 201, 202, 205 and conc reg in COR 397. For undergraduate COR maj only.

Aspects of organizational behavior in correctional agencies will be considered to enable the student to better understand on-the-job experiences, as well as to have an opportunity to relate theory to practice.

397 CRIMINAL JUSTICE INTERNSHIP I 6

F,S

COR 201, 202, 205, cons inst. See COR maj min requirements for enrollment limitations. Formerly EXTERNSHIP IN CORRECTIONS I (1976-77 catalog) and CORRECTIONS INTERNSHIP I.

Field placement in a corrections related agency. Interns work with designated agency personnel and receive an overview of agency functions.

398 CRIMINAL JUSTICE INTERNSHIP II 6

F,S

COR 397, cons inst. See COR maj min requirements for enrollment limitations. Formerly EXTERNSHIP IN CORRECTIONS II (1976-77 catalog) and CORRECTIONS INTERNSHIP II.

Intensive experience in a single corrections agency setting.

Professors: Abshire, Chapman, Crews, Eichstaedt, Engberg, Goodwin, Harris, Henderson, Hutchison, Meyers, Morton, Pankonin, Polacek, B. Smith, Sorrells, Steele, Stephens, Stoddard, Vanderbeck, Wang, Weith, Weller, Wennerstrom, Winterholter. Instructors: Davis, Howe, Kief, Pavey. Faculty Assistants: Coven, Russell.

Honors in Health, Physical Education, Recreation and Dance: The Department of Health, Physical Education, Recreation and Dance offers to the highly qualified major or minor student an individualized program. Students who are interested apply for admission to the program, offering general academic qualifications. The final designation "Honors in Health, Physical Education, Recreation and Dance" is earned by completing the program and fulfilling specific criteria. Additional information may be obtained from the chairperson of the Department of Health, Physical Education, Recreation and Dance.

Dance Programs

Degrees Offered: B.A., B.S., B.S. in Ed. Further Information: Department of Health, Physical Education, Recreation and Dance. Separate teacher education and non-teaching programs.

COMPREHENSIVE DANCE MAJOR

— 55 hours required.

— Required courses (37-38 hours): HPR 120, 165, 6 hours from among 166 or 167 or 266, 181, 260, 263, 265, 4 hours from among 267 or 268 or 269, 287 (1 or 2 hours), 2 hours from among 125 or 261 or 368, 2 hours from 360 or 365, 361, 362, 363.

— Elective courses (17-18 hours) are to be selected in consultation with an adviser according to the student's specialized interest in the areas of anthropology, dance criticism, education, performance/choreography, production/management, recreation, technical design, or dance therapy. A listing of currently acceptable courses from departments throughout the University which will meet the elective requirement is maintained in the office of the Department of Health, Physical Education, Recreation and Dance.

COMPREHENSIVE DANCE EDUCATION MAJOR

— 55 hours required.

— Required courses (48 hours): HPR 120, 4 hours from among HPR activity courses 162, 163, 6 hours from among 166 or 167 or 266, 181, 221, 235, 242, 265, 4 hours from among 267 or 268 or 269, 282, 2 hours from among 125 or 261 or 368, 341, 360, 362, 363, 383.

— Elective courses (7 hours) in HPR to extend competencies in physical education and dance.

MINOR IN DANCE

— 22 hours required.

— Required courses (8 hours): HPR 181, 260, 361 or 362.

— Elective courses (14 hours) selected from Dance courses.

MINOR IN DANCE EDUCATION (for HPR majors)

— 22 hours required.

— Required courses (8-10 hours): HPR 124 or 166, 4 hours from among 267 or 268 or 269, 361 or 362.

— Elective courses (12-14 hours) selected from Dance courses.

Health, Physical Education, Recreation, and Dance

Chairperson: Russell Gorman, 201 Horton.

Faculty: Professors: Bass, Collie, Crafts, Dohrmann, Gorman, Jones, Keough, Koehler, Liverman, Mabry, McAdam, Metcalfe, Nolte, Razor, J. Scott, P. Scott, G. Smith, Truex, Weisbecker, Wilson, Workman. Associate Professors: Chiodo, Girardi, Greenlee, Hellweg, Higgins, Imel, Kauth, McCallum, Quisenberry, Tcheng, Wilson. Assistant

MINOR IN DANCE EDUCATION**(non-HPR majors)**

- 22 hours required.
- Required courses (14-16 hours): HPR 120, 123 or 166, 162, 181, 260, 360, 361 or 362.
- Elective courses (6-8 hours) selected from Dance courses.

Health Education Programs

Degree Offered: B.S. in Ed. Further Information: Department of Health, Physical Education, Recreation and Dance. Teacher education program only.

COMPREHENSIVE HEALTH EDUCATION MAJOR

- 50 hours required.
- Required courses (30 hours): BSC 160, 181, 182, and 8 hours selected from among BSC 145, 202, 240, 242, 248, and/or 340; HPR 190, 290 (4 hours), 296.
- Elective courses (20 hours) selected in consultation with an adviser with at least one course from six of the following ten groups, with 189, 289, 389 courses substituting where applicable:
 1. Growing and Developing Organism: PSY 112, 301, 302, BSC 319, C&I 210, HPR 225, HEC 130, 250, 307.
 2. Ecological Relationships: AHP 150, 155, 351, BSC 201, 202, 360, CHE 280, GEO 205, 325, HPR 294, IT 308, PHY 100, SOA 267, SOA 267.
 3. Disease Control: BSC 160, 240, 260, 261, 360, AHP 201, 202, 254.
 4. Human Sexuality and Family Life: HEC 131, 194, 231, HPR 189 (Healthful Family Living), 191, PSY 305, SOA 262, 341, 342.
 5. Food Practices and Eating Patterns: AGR 101, HEC 106, 196, 211, 313.
 6. Consumer Health Sources and Resources: HEC 297, 330, AHP 100, 105, BEA 330, 340, FAL 351, MAM 231.
 7. Safety: AHP 253, 356, HPR 180, 209, 280, 384, IT 171, 356, 370, 376, 378, 380.
 8. Mood-Modifying Substances: HPR 189 (Drugs in Life Styles), 390, IT 371.
 9. Personal Health Practices: BSC 145, HEC 212.
 10. Mental and Emotional Health: PSY 131, 232, 365, SOA 131, 333.

Remainder of elective courses from among courses with Health Education perspective, including:

Community: BSC 242, 248, 306, 340, CHE 102, SOA 261, 264, POS 306.

Philosophical: SOA 268, PHI 120, 138, 232, 360.

Psychosocial: PSY 111, 131, SOA 106, 180, 332, INF 223.

Communication and Evaluation: C&I 330, 387, PSY 360, INF 110, 240.

MINOR IN HEALTH EDUCATION

- 30 hours required.
- Required courses (20-22 hours): Either HPR 181 and 182 or BSC 181 and 182, BSC 160, HPR 190, 290 (4 hours), 296.
- Elective courses (8-10 hours) selected in consultation with an academic adviser from among BSC 242, 248, or 340 and including at least one course from two of the ten groups listed under the major above, with 189, 289, and 389 courses substituting where applicable.

Physical Education Programs

Degrees Offered: B.A., B.S., B.S. in Ed. Further information Department of Health, Physical Education, Recreation and Dance. Identical teacher education and non-teaching programs available.

COMPREHENSIVE PHYSICAL EDUCATION MAJOR

- 50 hours required.
- Required Courses: HPR 156, 157, 158, 181, 182 or 351, 221, 241, 252, 253, 258, 282, 383.
- Required Specific Physical Education and Personal Safety Competencies: Upon completion of 90 semester hours (or before student teaching for teacher education students), students must verify competencies (knowledge and skill) in 8 selected physical education activities and in 3 areas of personal safety. The verification must be a matter of record in the Department office. Minimum competency may be demonstrated by either (1) satisfactory completion of a college level (majors section) HPR course with a grade of C or better, or (2) satisfactory completion of a proficiency examination in the specific activity. Completion of these competencies must include at least 4 semester hours of credit in majors sections of college level courses (a maximum of 4 hours may be earned by proficiency). Competencies must be selected according to the following plan:

A. Individual-Dual Activities. Select at least four from among: Badminton (105), or Tennis (142), Golf (119), Track-Field (141), Wrestling (148), Gymnastics (139), Fitness and Conditioning (113), Bowling (112), and/or Archery (103). At least two must be verified by enrolling in college level majors sections.

B. Team Sports. Select at least two from among the following groups: (1) one from among Basketball (106), Softball (118), or Volleyball (136); one field sport from among Soccer (117), Speedball (137), Flag Football (149), or Field Hockey (109). At least one must be verified by enrolling in a college level majors section.

C. Rhythms-Dance. Select at least two from among: Folk and Social Dance (120), Folk Dance (133.39), Square Dance (133.38), Social Dance (133.37), Jazz Dance (163), or Modern Dance (123).

D. Personal Safety Skills. Students must verify minimum competence in personal safety skills at the time of admission as a major or before completing 90 semester hours (or before student teaching for teacher education students) as follows:

1. **Swimming.** Satisfactory completion of any college level swimming course or presentation of a current ARC, YMCA, or YWCA intermediate or higher level certificate.

2. **First Aid.** Satisfactory completion of First Aid (180) with a grade of C or better, or satisfactory completion of a first aid proficiency test, or presentation of a current Standard ARC First Aid Certificate.

3. **Cardiac Pulmonary Resuscitation.** CPR techniques must be verified by presenting a current operator's certificate.

- Elective Courses: Students are encouraged to select one of the following areas of concentration to complete the 50 hours required of the comprehensive major: (1) Adapted Physical Education, (2) Aquatics, (3) Athletic Coaching, (4) Athletic Training, (5) Dance, (6) Recreation, (7) Elementary Physical Education, or (8) Secondary Physical Education. Written materials describing

each area of concentration are available through departmental advisers.

MAJOR IN PHYSICAL EDUCATION

- 37 hours required.
- Required Courses (30 hours): HPR 156, 157, 158, 181, 182 or 351, 221, 241, 252, 253, 258, 282, 383.
- Required Specific Physical Education and Personal Safety Competencies: These requirements are the same as those listed above under the 50-hour Comprehensive Physical Education Major.

Teacher Certification: All Physical Education majors planning to become certified teachers must apply for and be admitted to the University's Teacher Education Program (see Teacher Education Program section of Catalog). Upon applying for admission to the program, the Physical Education Major or Comprehensive Major must have completed a minimum of 6 hours in HPR courses at ISU, have contacted a departmental adviser to complete a departmental application and a projected program plan, and participate in a personal interview if so requested. Prior to enrolling in Student Teaching (HPR 399), the student must attend university and departmental orientation meetings and complete a university and departmental application. To be eligible to enroll in Student Teaching (HPR 399) the student must have been admitted to the University Teacher Education Program by the stated deadlines.

MINOR IN PHYSICAL EDUCATION

Elementary Physical Education Sequence: This is a teacher education program. 24 hours required. Required courses (21 hours): HPR 156, 157, 162, 221 or 222 (or C&I 250), 224, 225, 252, 253, 321. Elective courses (3 hours): One course from HPR 113, 139, or 141 and two courses from among HPR 106, 118, 136, 137, 149.

Secondary Physical Education Sequence: This is a teacher education program. 24 hours required. Required courses: HPR 156, 157, 158, 241, 252, 253; 6 hours selected from among HPR 181, 182 or 351, 282; and 4 hours selected as follows: (a) 2 hours from HPR 103 or 112, 105 or 142, 113, 119, 139, 141, 148; (b) 1 hour from HPR 106, 118, 136, 137, or 149; and (c) 1 hour from HPR 120, 123, 163.

Athletic Coaching Sequence: This is a nonteaching program, not recognized as a teaching area in Illinois. 24 hours required. Required courses: HPR 181, 182, or 351, 207, 384, 398; 2 hours selected from among HPR 210, 211, 212, 213, 214; 2 or 3 hours selected from HPR 250, 252, 253, 5 or 6 hours selected from among HPR 180, 209, 282, 304, 349, 387, or any other courses listed above.

Athletic Training Sequence: This is a nonteaching program, not recognized as a teaching area in Illinois. This sequence meets all necessary requirements for certification by the National Athletic Trainers' Association. Students interested in NATA certification should consult the Athletic Training Program Coordinator in the department for further information. 24 hours required. Required courses: HPR 113, 180, 181, 282, 351, 384, 387, and 6 hours of HPR 388.

Recreation and Park Administration Programs

Degree Offered: B.S. Further Information: Department of Health, Physical Education, Recreation and Dance. No teacher education program offered. To insure that students take the right courses "selected and determined with the approval of an academic adviser" as indicated below, students should obtain descriptive materials on the Recreation

and Park Administration programs available in the Department, and see assigned Adviser each semester.

COMPREHENSIVE RECREATION AND PARK ADMINISTRATION MAJOR

- 54 hours required as specified.
- Required courses (24 hours of core courses): HPR 173, 271, 278, 375, 398 (14 hours).
- 30 hours of additional courses **selected and determined with the approval of an academic adviser** designed to meet one of the following sequences.

General Recreation and Park Administration Sequence: HPR 174, 371; 6 hours in ACC, FAL or MAM; 3 hours in BSC; 3 hours in INF; 6 hours in POS; 3 hours in SOA; 3 hours in Fine Arts (ART, MUS, and/or THE). Specific courses must have adviser approval.

Recreation Program Supervision Sequence: HPR 171, 174, 370, 374; 3 hours in ACC, FAL or MAM; 4 hours in INF; 3 hours in POS; 3 hours in PSY and/or SOA; 3 hours of skills or activity courses in Art, Dance, Health, Physical Education and Recreation, Music, and/or Theatre; 3 hours in Fine Arts (ART, MUS, and/or THE). It is strongly recommended that the student also take additional hours utilizing electives for developing skill competencies in at least two program fields such as aquatics, art, craft, dance, drama, music, outdoor recreation or sports. Specific courses must have adviser approval.

Therapeutic Recreation Sequence: HPR 171, 370; 2 hours in AHP; 8 hours in BSC; 3 hours in INF and/or C&I; 5 hours in PSY, SED, SOA, and/or HPR; 3 hours in Fine Arts (ART, MUS, and/or THE); 4 hours in skills or activity courses in Art, Dance, Health, Physical Education and Recreation, Music, and/or Theatre. It is strongly recommended that the student also take additional hours utilizing electives for developing skill competencies in at least two program fields such as aquatics, art, crafts, dance, drama, music, outdoor recreation or sports. Specific courses must have adviser approval.

Recreation Resources Management Sequence: HPR 371, 374; 6 hours of ACC, FAL, MAM or ECO; 4 hours of BSC; 8 hours of AGR, GEO (Geography or Geology), and/or IT; 3 hours of POS; 3 hours of Fine Arts (ART, MUS, and/or THE). Specific courses must have adviser approval.

MAJOR IN RECREATION AND PARK ADMINISTRATION

- 37 hours as specified.
- Required courses (24 hours of core courses): HPR 173, 271, 278, 375, 398 (14 hours).
- 13 elective hours selected and determined with the approval of an academic adviser, including at least 3 hours in ACC and/or BUA; 3 hours in POS; 3 hours in Fine Arts (ART, MUS, and/or THE). Specific courses must have adviser approval.

MINOR IN RECREATION AND PARK ADMINISTRATION

- 24 hours required as specified.
- Required courses: HPR 171, 173, 271, 370, 371, 375; 3 hours in Fine Arts (ART, MUS, and/or THE); 4 additional hours selected in consultation with an adviser.

Physical Education Courses

Some sections of these courses may be restricted to HPR majors.

A locker and towel charge will be assessed for students in selected physical education activity courses.

100 ADAPTED RECREATIONAL ACTIVITIES 1 US-E F,S*Health Service approval required.*

For those not able to take other listed activity courses.

101 AQUATIC ART 1 US-E F*HPR 129 or American Red Cross Swimmer skill level.*

Specialized skills in synchronized swimming strokes and aquatic stunts and figures.

102 AQUATIC COMPOSITION 1 US-E S*Previous experience in synchronized swimming or aquatic art.*

Opportunity for experiences in group and individual composition in the aquatic medium with emphasis on techniques of production.

103 ARCHERY I 1 US-E F,S**103.02 ARCHERY II 1 US-E F,S****105 BADMINTON I 1 US-E F,S****105.02 BADMINTON II 1 US-E F,S****106 BASKETBALL I 1 US-E F,S****106.02 BASKETBALL II 1 US-E F,S****107 FIGURE SKATING I 1 US-E F,S***Charge assessed to each student enrolled.***107.02 FIGURE SKATING II 1 US-E F,S***Charge assessed to each student enrolled.***108 BILLIARDS I 1 US-E F,S***Charge assessed to each student enrolled.***108.02 BILLIARDS II 1 US-E F,S***Charge assessed to each student enrolled.***109 FIELD HOCKEY 1 US-E F***Maj min only.***110 WEIGHT CONTROL 1 US-E F,S**

A practical personal approach to the problem of weight control based on the principles of behavior modification, diet, and exercise.

111 BODY MECHANICS 1 US-E F,S**112 BOWLING I 1 US-E F,S***Charge assessed to each student enrolled.***112.02 BOWLING II 1 US-E F,S***Charge assessed to each student enrolled.***113 FITNESS AND CONDITIONING 1 US-E F,S**

An individualized approach to the development of cardiovascular fitness program based upon a knowledge and understanding of the specific effects of exercise.

115 CAMPCRAFT I 1 US-E F,S**116 CANOEING I 1 US-E F,S***Ability to swim in deep water. Charge assessed to each student enrolled.***116.02 CANOEING II 1 US-E F,S***HPR 116. Ability to swim in deep water. Charge assessed to each student enrolled.***117 SPEEDBALL 1 US-E F***Maj min only.***118 SOFTBALL I 1 US-E S***Maj min only.***118.02 SOFTBALL II 1 US-E S***Maj min only.***119 GOLF I 1 US-E F,S****119.02 GOLF II 1 US-E F,S****127 SWIMMING I 1 US-E F,S**

Instruction in adjustment skills and basic techniques of safety and swimming.

128 SWIMMING II 1 US-E F,S

For advanced beginners and low intermediates.

129 SWIMMING III 1 US-E F,S

For deep water swimmers to develop and refine aquatic skills.

130 SWIMMING IV 1 US-E F,S

For the swimmer to refine basic strokes and an introduction to competitive swimming.

131 SENIOR LIFE SAVING 2 US-E F,S*American Red Cross Swimmers or Advanced Swimmers skill level.*

For highly skilled swimmers to learn special skills of life saving, rescue techniques, and water safety procedures. Opportunity to earn American Red Cross Senior Life Saving certification.

132 WATER SAFETY INSTRUCTORS COURSE 2 US-E F,S*Current American Red Cross Senior Life-Saving Certificate.*

Analysis of techniques in and methods of teaching swimming and life saving. Opportunity for American Red Cross Water Safety Instructor certification.

133 SELECTED ACTIVITIES 1 US-E F,S

Selected beginning and/or intermediate activities offered as experimental programs.

134 SAILING I 1 US-E F*Ability to swim in deep water.***134.02 SAILING II 1 US-E F***HPR 134.***135 DIVING I 1 US-E F,S***Ability to swim in deep water, to execute a good standing dive from side of pool.***135.02 DIVING II 1 US-E F,S***HPR 135 or demonstrated diving ability.***136 VOLLEYBALL I 1 US-E F,S****136.02 VOLLEYBALL II 1 US-E F,S****137 SOCCER 1 US-E F****138 SCUBA DIVING I 1 US-E F,S***Charge assessed to each student enrolled.***138.02 SCUBA DIVING II 1 US-E F,S***HPR 138. Charge assessed to each student enrolled.***139 GYMNASTICS I 1 US-E F,S****140 FENCING I 1 US-E F,S****140.02 FENCING II 1 US-E F,S****141 TRACK AND FIELD 1 US-E S***Maj min only.***142 TENNIS I 1 US-E F,S****142.02 TENNIS II 1 US-E F,S****143 TRAMPOLINE AND TUMBLING I 1 US-E F***Not for credit if had HPR 139.***143.02 TRAMPOLINE AND TUMBLING II 1 US-E F***HPR 139 or 143.*

- 144 RECREATIONAL GAMES** 1 US-E F,S
- 145 WATER POLO I** 1 US-E F,S
- 145.02 WATER POLO II** 1 US-E F,S
- 146 RHYTHMIC GYMNASTICS** 1 US-E F,S
- 147 WEIGHT LIFTING** 1 US-E F,S
- 148 WRESTLING** 1 US-E F,S
- 149 FLAG FOOTBALL** 1 US-E F
- Basic skills and knowledges of flag football learned through practice, game play and observations.
- 156 DIMENSIONS OF HUMAN MOVEMENT** 2 F,S
- Introduction, understanding and appreciation of discipline of human movement, and its relationship to career options in physical education.
- 157 BIOSCIENTIFIC PERSPECTIVES OF HUMAN MOVEMENT** 2 F,S
- HPR 156 or cons inst.*
- The study of human movement throughout one's total life span as it is delineated by innate and environmental factors.
- 158 INSTRUCTIONAL STRATEGIES IN PHYSICAL EDUCATION** 2 F,S
- An introduction to the development of teaching skills in physical education. Emphases upon practicing skills of teaching through micro-lessons and peer teaching.
- 159 OFFICIATING** 1 F,S
- May be repeated. Max 4 hrs. No more than one hour may be taken in each sport area. Formerly HPR 201 and 202: SPORTS OFFICIATING I AND II.*
- Instruction, practice, and examination of officiating or judging techniques for the following sports; FALL SEMESTER: Men's football, women's basketball, badminton, field hockey, men's basketball and swimming; SPRING SEMESTER: Volleyball, track and field, softball, gymnastics, and tennis.
- 160 FUNDAMENTALS OF MOVEMENT** 1 F,S
- C&I 250 students only.*
- Analysis of fundamental movements and complex skills; rhythmic elements as related to movement activities.
- 180 FIRST AID** 2 US-E F,S
- Accident prevention and action to be taken in cases of accident and sudden illness in the home, school and community. Students successfully completing this course will receive certification in Red Cross standard First Aid and Personal Safety. Instruction in CPR techniques will be included.
- 181 HUMAN ANATOMY AND PHYSIOLOGY** 3 US-E F,S
- Formerly ANATOMY AND PHYSIOLOGY.*
- Gross structure and physiology of the human body; particular attention to the skeletal and muscular systems.
- 182 HUMAN ANATOMY AND PHYSIOLOGY** 3 US-E F,S
- Formerly ANATOMY AND PHYSIOLOGY.*
- Emphasis on the nervous, circulatory, respiratory and digestive systems.
- 207 THE COACH AND INTERSCHOOL ATHLETICS** 2 F,S
- An introduction to interschool athletic programs including basic philosophy, governing organizations, administrative duties of coaches and direct coaching responsibilities.

- 208 ORGANIZATION AND ADMINISTRATION OF INTRAMURAL SPORTS** 3
- 209 SPORTS SAFETY** 3 S
- Philosophy of sports safety. Human and environmental factors in sport injury, legal responsibilities of teacher, safety factors in activities; accident prevention and injury control in sports.
- 210 BASEBALL COACHING** 2 F,S
- HPR 207.*
- 211 BASKETBALL COACHING** 2 F,S
- HPR 207.*
- 212 FOOTBALL COACHING** 2 F
- HPR 207.*
- 213 TRACK AND FIELD COACHING** 2 S
- HPR 207.*
- 214 WRESTLING COACHING** 2 F
- HPR 207.*
- 221 ELEMENTARY PHYSICAL EDUCATION CURRICULUM** 3 F,S
- Formerly PHYSICAL EDUCATION FOR ELEMENTARY SCHOOLS.*
- Planning a program of physical education for elementary school children. Progressions within activities, techniques of organization, and methods of teaching. Observations of children and laboratory experiences in activities.
- 222 PHYSICAL EDUCATION FOR ELEMENTARY CLASSROOM TEACHER** 2 F,S
- Not for credit maj min. No credit if in Elementary Education Core program.*
- Factors essential to program planning in physical education grades one through six. Types and progression of activities; methods and techniques of class organization. Observations of children and laboratory experiences in activities.
- 224 MOVEMENT EXPERIENCES FOR CHILDREN** 3 S
- HPR 221 or 222.*
- Development of a basic movement approach to teaching elementary physical education. Problem solving as method of teaching. Skills, knowledges and concepts underlying traditional activities.
- 225 MOTOR DEVELOPMENT OF CHILDREN** 3 US-E F
- Motor development related to anatomical growth and sensory development in the child from infancy to puberty. Mechanisms and theories of perceptual motor development, research findings, and implications for physical education.
- 230 ADMINISTRATION OF AQUATICS** 2
- Organization and administration of instructional, recreational, and competitive aquatic programs. Personnel selection, training, facility management.
- 241 SECONDARY PHYSICAL EDUCATION CURRICULUM AND EVALUATION** 4 F,S
- Development and administration of secondary physical education programs. Concepts and techniques of evaluation appropriate for the program and the learner in physical education.

242 PRINCIPLES OF PHYSICAL EDUCATION 2 F.S

Formerly PRINCIPLES OF HEALTH AND PHYSICAL EDUCATION.

Basic biological, sociological and psychological facts and principles underlying physical education. Section for Honors students.

250 CONTEMPORARY ISSUES IN PHYSICAL EDUCATION AND ATHLETICS 2 F.S

Current trends and issues affecting the fields of physical education and athletics.

252 CULTURAL PERSPECTIVES OF HUMAN MOVEMENT 2 F.S

HPR 156 or cons inst.

Interrelationship of selected historical, philosophical and sociological human movement concepts which have significance for physical education.

253 PSYCHOLOGICAL PERSPECTIVES OF HUMAN MOVEMENT 2 F.S

HPR 156 or cons inst.

A study of socio-psychological variables, and selected aspects of learning as they pertain to human movement experiences.

258 CLINICAL EXPERIENCES IN PHYSICAL EDUCATION 2 F.S

HPR 158, 221, or conc reg.

Arranged clinical experience assignment that includes observation, participation, and teaching in an elementary physical education program. Class meets regularly twice a week as a seminar.

280 INSTRUCTOR'S FIRST AID 2 S

Advanced Red Cross First Aid Certificate.

Methods and materials for teachers of first aid and accident prevention. Steps to be taken in case of accident or sudden illness in the home, school and community.

282 KINESIOLOGY 3 F.S

HPR 181.

Analysis of human motion based on anatomic and mechanical principles. Application of these principles in teaching physical education activities.

295 HONORS SEMINAR 3 F.S

Advanced readings and critical discussion of physical education with broad areas of concern in social, cultural, philosophical, and scientific bases.

304 TEACHING OF SPORTS 3 F

Optimal learning in human movement: content, teacher behavior, situational conditions, analysis of sports, instructional approaches, application and research.

321 CURRENT TRENDS IN ELEMENTARY PHYSICAL EDUCATION 3 S

HPR 221 or 222.

Conceptual approach to teaching elementary physical education; integration of physical education with classroom subjects; evaluation of children's performance.

340 COMPARATIVE HISTORY OF SPORT AND PHYSICAL EDUCATION 3 US-E S

Formerly HISTORY OF PHYSICAL EDUCATION.

Relationship, from ancient to contemporary times, of sport physical education to economic, political, social, educational, and religious factors.

341 ORGANIZATION AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION 3 F.S

Administration and program development of health education and physical education in elementary and secondary schools and community colleges.

347 TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION 3 F.S

Analysis of motor performance, using objective tests, subjective ratings, and achievement tests. Construction and evaluation of knowledge tests. Use of statistical concepts for interpreting test scores.

349 APPLIED MOTOR LEARNING 3 F

Perceptual-motor development and performance. Application of research, learning theories and assessment tools; maturational, perceptual and performance factors.

351 EXERCISE PHYSIOLOGY 3 F

Utilization of human physiology in teaching physical education. Effects of exercise on body systems and physical efficiency tests and studies.

382 SENSORY MOTOR EDUCATION OF TRAINABLE MENTALLY HANDICAPPED 3 S

Physical education activities appropriate for the trainable mentally handicapped child. Related appropriate teaching techniques are emphasized.

383 ADAPTED PHYSICAL EDUCATION 2 F.S

HPR 182 or 351. Formerly BODY MECHANICS AND CORRECTIVE PROCEDURES.

Methods, materials, and activities appropriate for adapted physical education programs in elementary and secondary schools.

384 PREVENTION AND INITIAL CARE OF INJURIES 3 S

HPR 182 or cons inst.

Responsibilities, qualifications and limitations of a trainer-coach, conditioning as a preventive measure and selected injuries, taping and treatment modalities.

385 PHYSICAL DEFECTS-SURVEY AND REHABILITATION 3 F.S

HPR 282. Also offered as BSC 385. Lecture and laboratory.

Identification and treatment of physical defects of handicapped children; special services, equipment and procedures for school programs.

386 PHYSICAL EDUCATION AND RECREATION FOR HANDICAPPED CHILDREN 2 F

HPR 383 or PSY 346 and 2-3 hrs from HPR 221, 222, 224, or 321. For teachers of HPR and exceptional children.

Materials and methods for planning and conducting programs for handicapped children and adolescents.

387 TREATMENT OF ATHLETIC INJURIES 3 S

HPR 384 or cons inst.

Selected prevention and care items; concentrated work on therapeutic modalities, ergogenic aids and reconditioning exercises.

388 LAB/CLINICAL PRACTICE IN ATHLETIC TRAINING 1-3 F.S

Cons Athletic Training Coordinator.

Supervised laboratory practice under the guidance of a certified athletic trainer. One hundred hours of assigned

laboratory time equals 1 semester hour, may be repeated for a maximum of six hours. Not available for graduate credit.

398 PROFESSIONAL PRACTICE:

COACHING PRACTICUM 1-3 **F,S**
HPR 207 and one of HPR 210, 211, 212, 213, or 214.
May be repeated to maximum of 3 hours credit.

Practical involvement in coach-team situation. Observation and sharing of coaching responsibilities including planning, practice, preparation, supervision, discipline, personal relationships, motivation, and public relations.

Dance Courses

120 SOCIAL, SQUARE, AND FOLK DANCE 1 **US-E** **F,S**

123 MODERN DANCE I 1 **US-E** **F,S**

124 MODERN DANCE II 1 **US-E** **F,S**
HPR 123.

An introduction to beginning techniques of dance composition: design, theme, dynamics, rhythm, and form.

125 DANCE COMPOSITION 2 **F**
HPR 124.

Experience in several forms of group and individual compositions in dance.

162 DANCE FOR THE ELEMENTARY SCHOOL 2 **F,S**
HPR 120 or conc reg.

Rhythmic elements, patterns, skill in teaching creative rhythmic activities for elementary school children.

163 JAZZ DANCE I 1 **US-E** **F,S**

Foundation in jazz technique with opportunities for experimenting with composition and integrating jazz dance with music.

164 JAZZ DANCE II 2 **S**
HPR 163 or cons inst. Formerly HPR 262: DANCE FORM AND STYLE II.

Styles in jazz technique.

165 STUDIES IN BALLET 2 **US-E** **F**
Cons inst. May be repeated. Max 6 hrs.

Intensive training in the technique, vocabulary and style of classical dance.

166 STUDIES IN MODERN DANCE I 3 **US-E** **F,S**

Maj min or cons inst. May be repeated. Max 6 hrs.

Introduction to the techniques and theoretical basics of modern dance.

167 STUDIES IN MODERN DANCE II 3 **US-E** **F,S**

Cons inst. May be repeated. Max 6 hrs.

Techniques and theory of modern dance on an intermediate level.

169 TAP DANCE I 1 **US-E** **F**

Development of basic skills used in tap dancing.

260 MECHANICS FOR THE DANCER 2 **S**
HPR 181. Not for credit teaching maj in phys educ and dance educ.

The physical-psychological elements as they affect performance in dance.

261 DANCE COMPOSITION — THE FOLK FORMS 2 **F**

Choreographic approaches to the folk, social and square forms of dance.

263 NOTATION I 3 **F**
Formerly HPR 163.

Fundamentals of Labanotation; the recording of step patterns and gestures.

264 NOTATION II 3
HPR 263. Formerly HPR 164.

Principles dealing with the recording of total body movement and group patterns.

265 DANCE ACCOMPANIMENT 2 **S**
Formerly HPR 364: MUSICAL ANALYSIS FOR DANCE ACCOMPANIMENT.

Basic principles of accompanying modern dance; selection of appropriate music for use with folk, social and theatre forms of dance.

266 STUDIES IN MODERN DANCE III 3

Cons inst. May be repeated. Max 6 hrs.

Advanced techniques of modern dance. Theories of technical systems as developed by specific major innovators in dance.

267 SQUARE DANCE II 2 **US-E** **S**
HPR 120 or cons inst. Formerly HPR 121: SQUARE AND ROUND DANCE II.

Advanced techniques in American square, round, and contra dances; specialized skills for the design and presentation of these forms.

268 FOLK DANCE II 2 **US-E** **F**
HPR 120 or cons inst. Formerly HPR 122: SOCIAL AND FOLK DANCE II.

Expansion of personal repertoire of folk dances of increased difficulty and challenge from a wide selection of countries and ethnic cultures.

269 SOCIAL DANCE II 2 **US-E** **F**
HPR 120 or cons inst. Formerly HPR 122: SOCIAL AND FOLK DANCE II.

Development in intermediate skills and knowledges of American ballroom and social dancing.

295 HONORS SEMINAR 3 **F,S**
 Advanced readings and critical discussion of dance education with broad areas of concern in social, cultural, philosophical, and scientific bases.

360 TEACHING OF DANCE 2 **F,S**
HPR 162.

Teaching methods in modern and folk dance forms; selection progression, and development of dance materials for the secondary school.

361 HISTORY AND PHILOSOPHY OF DANCE I 3 **F**
Formerly HISTORY OF DANCE I.

History, philosophy, and development of dance as a social and cultural medium from primitive times through the 17th century.

362 HISTORY AND PHILOSOPHY OF DANCE II 3 **S**
Formerly HPR 363: HISTORY OF DANCE II.

History, philosophy, and development of dance from the 18th century to the present. Approaches, styles, and contributions of leading dance personalities.

363 PRINCIPLES OF DANCE PRODUCTION 3 **S**
Formerly HPR 362: PRINCIPLES OF PERFORMANCE.

Principles of costuming, lighting, accompaniment, and related aspects in the production of dance performances.

- 365 TEACHING OF FOLK FORMS OF DANCE 2 S**
Previous experience in the social forms of dance (social, square, folk) or cons inst.

Methods of teaching folk and social dance forms in the secondary school, college, and recreational situation.

- 367 PROBLEMS OF DANCE 2 F**
 Current problems in teaching and administration of dance curricula; supervision of recreational and performing dance groups.

- 368 DANCE COMPOSITION — EXPERIMENTAL APPROACHES 2 S**
Previous experience in modern dance. Formerly PRACTICUM IN COMPOSITION.

Progressive experiences in individual and group composition; in design, rhythm and dynamics, in various approaches to choreography.

- 369 DANCE FOR CHILDREN 2 F**
HPR 162, 221 or 222.

Methods and materials in traditional and creative activities; interrelationships of dance with other arts.

Health Education Courses

- 190 FOUNDATIONS OF HEALTH EDUCATION 3**
Health Education comprehensive maj min only.

The historical and philosophical perspectives of the development of health education. A comparison of the major concepts and theories of health and characteristics of health education programs in schools and communities.

- 191 WELL BEING AND THE HEALTH OF WOMEN 3 F,S**

Identification and investigation of contemporary personal and health concerns of the American woman, including observation of alternative life styles.

- 290 CONTINUING SEMINAR IN HEALTH EDUCATION 1 F**
Health Education maj min only. Must be repeated for max 4 hours credit as 290.01, 290.02, 290.03, and 290.04.

Experiences including agency and laboratory visitations; communication of new methods and materials; synthesis of interdisciplinary experiences; and student advisement.

- 294 HEALTH EDUCATION AND ENVIRONMENTAL QUALITY 3 F,S**

Role of health education in an individual's relationships with other persons, technology and culture, and the quality of environment generated.

- 295 HONORS SEMINAR 3 F,S**

Advanced readings and critical discussion of health education with broad areas of concern in social, cultural, philosophical, and scientific bases.

- 296 HUMAN POTENTIAL AND HEALTH EDUCATION 3**
8 hrs BSC and 6 hrs PSY and 6 hrs SOA or cons inst. Health Education comprehensive maj min only.

An examination of the physical, mental-emotional, and social dimensions of growing and developing, interacting, and decision-making. The interrelationships of these life processes, determinants of health, will be used to illustrate how man may further develop quality of life through health education.

- 390 MOOD MODIFYING SUBSTANCES AND THEIR EDUCATIONAL IMPLICATIONS 3 F,S**

Psychological, social, medical, legal and economic aspects of use, misuse and abuse of substances will be explored along with the implications for education.

Recreation and Park Administration Courses

- 171 TECHNIQUES IN SOCIAL RECREATION 2 F,S**
HPR 173 or cons inst.

Leadership skills in social recreation, conducting activities; developing programs for various social events. Programs for organizations and professional groups in a variety of settings.

- 172 CAMP LEADERSHIP 2 S**
 Experience in woodcraft skills, crafts, outdoor cookery, overnight trips, and other basic camp craft skills. Training for camp counselorships.

- 173 INTRODUCTION TO RECREATION 3 F,S**

Nature, scope, and significance of recreation and leisure. Introduction to the professional areas of recreation and leisure delivery systems.

- 174 SCHOOL-COMMUNITY RECREATION 3 F**

Agency cooperation in the development of school and community recreation. Emphasis on the community's use of schools and the school's use of the community for recreation.

- 270 COMMUNITY SPORTS ORGANIZATION 3 S**

Purposes, objectives, organization and administration of team and individual sports; their role in community recreation.

- 271 RECREATION LEADERSHIP 3 F,S**
HPR 173. Fieldwork required. Lecture and laboratory.

Theories, principles, practices and dynamics of leadership and their relationship to techniques and methods of working with individuals and groups in recreation settings.

- 278 SEMINAR IN PRACTICUM 1 F,S**
Recreation and Park maj only. 2.2 GPA for ISU coursework.

Orientation to the expectations and problems encountered in fieldwork. Formal application and placement of fieldwork students.

- 295 HONORS SEMINAR 3 F,S**

Advanced readings and critical discussion of recreation with broad areas of concern in social, philosophical, and scientific bases.

- 370 RECREATION FOR SPECIAL POPULATIONS 3 F,S**
HPR 271 or cons inst.

Materials for leadership techniques for conducting recreation for special groups, including mental and physically handicapped, aged, juvenile delinquents, armed forces, prisons, and hospitals.

- 371 PARK AND RESOURCE MANAGEMENT 3 F,S**
HPR 271 or cons inst.

Planning and operational procedures in acquiring, developing, and maintaining recreation and park areas and facilities.

372 CAMP EXPERIENCE WITH PHYSICALLY HANDICAPPED 3

SUMMER

Cons chrpn SED and chrpn HPR. May be repeated.

Counseling experience in a summer camp for physically handicapped children. Conferences on planning of daily activities, equipment and general program.

373 WORKSHOP IN RECREATION AND CAMPING 3

SUMMER

Preparation of materials in crafts, music, storytelling, dramatics, games and sports, with cooperative work among various departments and organizations.

374 OUTDOOR EDUCATION 3

F.S

Principles and policies underlying school-related programs and materials in outdoor education.

375 RECREATION AND PARK ADMINISTRATION 3

F.S

Administrative functions in the operation of organized recreation and leisure delivery systems.

398 PROFESSIONAL PRACTICE: RECREATION AND PARK ADMINISTRATION 7 or 14

HPR 278, 2.2 GPA for ISU coursework. 14 hrs program requirements for maj, 7 hrs rec min.

Supervised in-service practice under the guidance of professionally qualified personnel in leisure service agencies.

Home Economics

Coordinator: Bessie D. Hackett, 134 Turner Hall.

Faculty: Professors: Hackett, Karch. Associate Professor: Smith. Assistant Professors: Bremer, Carr, Hale, Hayden, Jett, Kern, Stemm, Stumbo, Upton. Instructors: Foote, Fox, Huffman, Lane, Martin.

Home Economics Programs

Degrees Offered: B.A., B.S., B.S. in Ed. Further Information: Department of Home Economics. Separate Home Economics and Home Economics Education (teaching) programs available.

COMPREHENSIVE HOME ECONOMICS MAJOR

- 52 hours of Home Economics and specifically related fields required.
- Required courses: Four of the following core courses: HEC 194, 195, 196, 297, 298.

A general home economics program is available in the comprehensive major, however students are encouraged to select one of the following specialized areas of concentration to complete their studies in the comprehensive major (1) Consumer Communications, (2) Child Development and Family Relationships, (3) Foods and Nutrition or Dietetics, (4) Housing and Environmental Design, (5) Merchandising in Clothing and Textiles. Advisers will recommend electives for each of these areas. Students who have not had high school laboratory courses in Biological and Physical Sciences are urged to include one or more courses in each area to meet University Studies requirements.

COMPREHENSIVE HOME ECONOMICS EDUCATION MAJOR

- 55 hours in Home Economics and specifically related fields required.
- Required courses: HEC 194, 195, 196, 203, 297, 298; ART 103 or 111.

Students who have not had high school laboratory courses in Biological and Physical Sciences are urged to include one or more courses in each area to meet University Stud-

ies requirements. Courses for Early Childhood Education certification can be combined with this comprehensive major.

MAJOR IN HOME ECONOMICS

- 37 hours in Home Economics and specifically related fields required.

- Required courses: Three of the following core courses: HEC 194, 195, 196, 297, 298.

Additional courses, determined in consultation with an academic adviser, designed to meet one of the following specialized areas of concentration: (1) Consumer Communications, (2) Child Development and Family Relationships, (3) Foods and Nutrition or Dietetics, (4) Housing and Environmental Design, (5) Merchandising in Clothing and Textiles or a General Home Economics Program. Students who have not had high school laboratory courses in Biological and Physical Sciences are urged to include one or more courses in each area to meet University Studies requirements.

MAJOR IN HOME ECONOMICS EDUCATION

- 38 hours in Home Economics and specifically related fields required.

- Required courses: HEC 194, 195, 196, 203, 297, 298; ART 103 or 111.

Students who have not had high school laboratory courses in Biological and Physical Sciences are urged to include one or more courses in each area to meet University Studies requirements.

MINOR IN HOME ECONOMICS

- 24 hours in Home Economics required.

- Required courses: Three of the following core courses: HEC 194, 195, 196, 297, 298.

MINOR IN HOME ECONOMICS EDUCATION

- 24 hours in Home Economics required.

- Required courses: HEC 194, 195, 196, 203.

Home Economics Courses

106 NUTRITION 2 US-E F.S

Not for credit maj min. Materials charge.

Functions, sources, and recommended amounts of nutrients for various age groups. Evaluation of eating patterns.

110 INTRODUCTION TO HOME ECONOMICS 1 F

Materials charge.

Development of Home Economics; contributions of field; satisfactions derived from various areas; career opportunities.

111 MEAL PLANNING 3 F.S

HEC 106 or conc reg. Materials charge.

Planning, preparation, and service of breakfasts, lunches, and entertainment menus. Food preservation.

120 INTRODUCTION TO TEXTILES 2 F.S

Materials charge.

Consumer approach to judgment of textile products; differentiation of fibers, fabrication, finishes, standardization, and labels.

121 BEGINNING GARMENT CONSTRUCTION 3 F.S

Materials charge.

Selection of fabrics and patterns; principles of construction and fitting. Designed for the student without a sewing background.

122 CLOTHING**CONSTRUCTION I 3 F,S**

HEC 195. Formerly CLOTHING. Clothing construction experience. Materials charge.

Techniques of garment construction. Elementary fitting of basic dress and/or shirt. One or two garments completed. Sewing background necessary.

123 COSTUME DESIGN 2 S

HEC 195 and ART 111, or ART 103. Materials charge. Principles of art applied to apparel design.

130 THE CHILD 3 F,S

Materials charge.

Prenatal care; physical, mental, emotional, and social behavior of young children.

131 COURTSHIP AND**MARRIAGE 3 US-E F,S**

Not for credit maj min. Materials charge.

Dynamics of dating, courtship, mate selection, preparation for marriage; adjustments in marital/interpersonal relations.

132 HOME MANAGEMENT IN CONTEMPORARY LIFE 3 US-E F,S

Not for credit maj min. Materials charge.

Principles, decision-making processes of using money, time, energy to meet individual and family needs.

194 CONTEMPORARY PERSONAL AND FAMILY LIVING 4 F,S

Materials charge.

Human development in the context of the family including: self awareness, mate selection, marital adjustment, pregnancy, childbirth and development.

195 TEXTILES AND APPAREL 4 F,S

Materials charge.

Factors related to personal satisfaction in selection and use of apparel; exploration of textile fibers and fabrication.

196 NUTRITION WITH FOOD PREPARATION 4 F,S

Materials charge.

Knowledge and skills associated with meeting nutritional needs of individuals and families through food preparation.

203 COMPETENCIES FOR TEACHING 4 F,S

Conc reg req C&I 200. Also offered as IT 203.

Curriculum planning, teaching, and evaluation strategies, and professionalism for vocational and career education teachers.

211 NUTRITION AND DIETETICS 2 F,S

HEC 106. Materials charge.

Modified nutritional needs resulting from disease. Planning, adjusting, evaluating dietaries for special health conditions.

212 FAMILY HEALTH AND HOME NURSING 2

Materials charge.

Relation of individual health and family well-being. Prevention of illness and accidents. Home care of ill and convalescent.

213 MEAL PLANNING 3 F,S

HEC 196. Formerly HEC 113. Materials charge.

Meal planning based on criteria of nutritive requirements, marketing challenges, and utilization of resources. Preparation and service of family dinners.

220 CLOTHING**CONSTRUCTION II 3 F,S**

HEC 122. Formerly CLOTHING. Materials charge.

Advanced garment construction study. Experience working with various fabrics, garment styles and fitting variations.

221 TAILORING 3 F

HEC 220. Materials charge.

Suit and coat construction using recognized tailoring techniques.

231 FAMILY RELATIONSHIPS 3 F,S

HEC 194 or C&I 210 or cons inst. Materials charge.

Functions of productive family units to fulfill individual and group needs.

237 SLIPCOVERS AND DRAPERIES 2

Sewing proficiency. Students furnish materials for projects. Materials charge.

Application of art principles to interior design through selection and construction of draperies and slipcovers.

238 FURNISHINGS 3 F,S

Materials charge.

Furnishings with reference to efficiency, beauty, comfort, and economy.

240 HOUSEHOLD EQUIPMENT 2 F,S

Materials charge.

Principles of selection, operation, care, and arrangement of equipment in the home.

245 HOME ECONOMICS ADULT EDUCATION 2

Materials charge.

Organization and methods used in adult programs. Trends in home economics applied to adult education.

249 MERCHANDISING IN FASHION AND FURNISHINGS 3 F

HEC 220 or 298, ART 111 or 103, BUA 217.

Aspects related to a merchandising career in fashion and furnishings: displays, salesmanship, store organization, sales promotion, and budgeting.

250 CHILD DEVELOPMENT AND GUIDANCE 3 F,S

HEC 194 or cons inst. Materials charge.

Research contributing to understanding and guiding of child behavior. Involvement in nursery school or child care situation.

297 CONSUMER MANAGEMENT 4 F,S

Materials charge.

Management through decision-making processes to achieve optimum utilization of time, energy, money and consumer knowledge.

298 HOUSING AND EQUIPMENT 4 F,S

Materials charge.

Fundamental decisions in the choice of dwelling and the selection, use and care of household equipment.

301 EVALUATION IN HOME ECONOMICS 2

Materials charge.

Evaluation and basic principles involved; methods and techniques; individual problems.

304 CURRICULUM DEVELOPMENT IN HOME ECONOMICS 3

Materials charge.

Organization, methods, materials, and evaluation in relation to type of program and age level. Individual or group problems.

**306 EMPLOYMENT PROGRAMS
IN HOME ECONOMICS 3 F,S**
Materials charge.

Organization, administration, and operation of home economics gainful employment programs in public schools.

307 THE INFANT AND TODDLER 3 S
PSY 111 and HEC 194 or cons inst. Materials charge.
Growth and behavior of young child as related to family and other factors.

**308 ORGANIZATION AND
ADMINISTRATION OF EARLY
CHILDHOOD PROGRAMS 3 F**
HEC 194 and 250 or cons inst. Materials charge.

The nursery school and other educational and care units responsible for the guidance of the young child.

**311 NUTRITIONAL PROBLEMS
OF SPECIAL GROUPS 3 F**
HEC 196 or 106. Materials charge.

Nutritional needs of selected populations vulnerable to inadequate diet; emphasis on U.S. programs designed for groups at nutritional risk.

313 FOOD CUSTOMS 2 S
HEC 213 or cons inst. Materials charge.

Influence of food customs of various ethnic groups on American meal patterns.

316 FOOD INVESTIGATIONS 3 F
HEC 213. Materials charge.

Experimental approach to principles underlying food preparation.

319 QUANTITY FOODS 5 S
HEC 213. Materials charge.

Application of principles, techniques, and standards required to produce food in quantity for institutional and commercial feeding.

320 DEMONSTRATION TECHNIQUES 2 F,S
HEC 213 or 220. Materials charge.

Techniques and standards for demonstrations in various areas of home economics.

322 PATTERNMAKING 3 F
HEC 122 or cons inst. Materials charge.

Making garment patterns by the flat pattern method.

323 ADVANCED TEXTILES 2 S
HEC 195. Materials charge.

Developments in the textile field, particularly man-made fibers and their products. Significance of the textile market for consumers.

324 DRAPING AND DESIGN 3 S
HEC 220 or cons inst. Formerly ADVANCED COSTUME DESIGN AND DRAPING. Materials charge.

Interpretation of garment designs in fabric by means of the draping procedure. Body form may be constructed.

**330 DECISION-MAKING FOR
CONSUMERS 3 US-E F,S**
Also offered as BEA 330. Materials charge.

Survey of consumer problems, trends and information. Topics include: insurance, housing, credit, life style, consumer protection, leisure and achieving financial security.

340 APPLIED INTERIOR DESIGN 4 F
HEC 195, 298 or cons inst. Materials charge. Lecture and laboratory.

Principles in designing interior environments to meet human needs. Laboratory devoted to development of renderings and presentations for portfolios.

**398 PROFESSIONAL PRACTICE:
HOME ECONOMICS 1-4 F,S**
Cons inst which requires four from among HEC 194, 195, 196, 297, 298; jr-sr standing (75 hrs); 2.2 overall GPA; and 50% of hrs in Specialization Group II. May be repeated once.

Practicum to provide planned and supervised work/study experiences in agencies such as governmental, community, business, and industry.

Industrial Technology

Chairperson: Joe Talkington, 211 Turner Hall.

Faculty: Professors: Anderson, Blomgren, Johnston, Kagy, Porter, Quane, Talkington, Zook. Associate Professors: Bell, Francis, Herberts, Loepp, Lockwood, McCarthy, Miller, Pendleton, Weede, Wiseman. Assistant Professors: Andrews, Campbell, Chance, Dörner, Dowdall, James, Young. Instructor: Bernardi. Faculty Assistants: Hanks, Schildgen. Faculty Associate: Morris.

Industrial Technology Programs

Degrees Offered: B.S., B.S. in Ed. Further information: Department of Industrial Technology. Separate Industrial Technology and Industrial Education (teaching) programs available.

Industrial Technology and Industrial Education students are encouraged to specialize in one or more of the following areas of concentration: (1) Drafting (Architectural and Computer Graphics); (2) Electricity-Electronics; (3) Graphic Arts; (4) Metals Technology; (5) Plastics Technology; (6) Power Mechanics Technology (Automotive and Fluid Power); (7) Safety (Traffic and Occupational); (8) Wood Technology (Construction). Those preparing to teach industrial vocational subjects or classes must meet requirements set forth by the Illinois Office of Education. The departmental office has this information.

COMPREHENSIVE INDUSTRIAL TECHNOLOGY MAJOR

- 55 hours required.
- Required courses: IT 171, 190, 191, 192; MAM 220, MAT 107 or 1-1/2 years of high school algebra or equivalent and MAT 108 or 1/2 year of high school trigonometry or equivalent or MAT 109; 20 hours of Industrial Technology courses.
- Additional courses determined in consultation with an academic adviser designed to meet one of the following concentrations: Industrial Supervision and Management, Industrial Production, or Technical Sales and Service.

COMPREHENSIVE INDUSTRIAL EDUCATION MAJOR

- 55 hours required.
- Required courses: IT 171, 190, 191, 192, 203; MAT 107 or 1-1/2 years of high school algebra or equivalent and MAT 108 or 1/2 year of high school trigonometry or equivalent or MAT 109; at least 8 hours in each of two of the areas of drafting, electricity, graphic arts, metals, plastics, power mechanics, woods; additional courses determined in consultation with an academic adviser designed to meet one of the following concentrations: Industrial Arts Education, Industrial Vocational Education, Industrial Technical Education.

MAJOR IN INDUSTRIAL TECHNOLOGY

Industrial Technology Sequence: 37 hours required. Required courses: IT 171, 190, 191, 192; MAT 107 or 1-1/2

years of high school algebra or equivalent and MAT 108 or 1/2 year of high school trigonometry or equivalent or MAT 109; additional 17 hours of Industrial Technology courses determined in consultation with an academic adviser designed to meet one of the following concentrations: Industrial Supervision and Management, Industrial Production, or Technical Sales and Service.

Safety Sequence (students elect one of the following concentrations):

Traffic Safety Concentration. 37 hours required. A valid driver's license is required. Required courses: IT 171, 172, at least 12 hours selected from among IT 163, 370, 371, 372, 375, 377, 378. Electives in safety-related courses approved by academic adviser.

Occupational Safety Concentration. 37 hours required. Required courses: IT 171, 190, 191, 192, 356, MAT 107 and 108 or MAT 109. At least 15 semester hours from IT 370, 372, 373, 376, 378, 380, 381. Electives in safety-related courses approved by academic adviser.

MAJOR IN INDUSTRIAL EDUCATION

Industrial Education Sequence: 37 hours required. Required courses: IT 171, 190, 191, 192, 203; MAT 107 or 1-1/2 years of high school algebra or equivalent and MAT 108 or 1/2 year of high school trigonometry or equivalent or MAT 109; at least 8 hours in one of the areas of drafting, electricity, graphic arts, metals, plastics, power mechanics, woods. Additional courses determined in consultation with an academic adviser designed to meet one of the following concentrations: Industrial Arts Education, Industrial Vocational Education, Industrial Technical Education.

Traffic and Safety Education Sequence: 37 hours required. A valid driver's license is required. Required courses: IT 171, 172, at least 12 hours selected from among IT 163, 370, 371, 372, 375, 377, 378. Electives in safety-related courses approved by academic adviser.

MINOR IN INDUSTRIAL TECHNOLOGY

— 24 hours required.

— Required courses: IT 171, 190, 191, 192; MAT 107 or 1-1/2 years of high school algebra or equivalent and MAT 108 or 1/2 year of high school trigonometry or MAT 109; additional Industrial Technology courses determined in consultation with an academic adviser designed to meet one of the following concentrations: Industrial Supervision and Management, Industrial Production, or Technical Sales and Service.

MINOR IN INDUSTRIAL EDUCATION

Industrial Education Sequence: 24 hours required. Required courses: IT 171, 190, 191, 192, 203; MAT 107 or 1-1/2 years of high school algebra or equivalent and MAT 108 or 1/2 year of high school trigonometry or MAT 109; at least 8 hours in one of the areas of drafting, electricity, graphic arts, metals, plastics, power mechanics, woods.

Traffic and Safety Education Sequence: 20 hours required. A valid driver's license is required. Required courses: IT 171, 172, 273, 374, 379. At least 4 hours from among IT 163, 371, 375, 377. Electives in safety-related courses approved by academic adviser.

Industrial Technology Courses

100 INTRODUCTION TO CAREERS IN INDUSTRIAL TECHNOLOGY 1 F,S
Study of programs and vocational opportunities in industrial education and industrial technology.

108 INDUSTRIAL DESIGN 2

Materials charge.

Principles of design and systems of designing as applied to industrial and environic design problems.

127 CRAFTS 3

Crafts activities plus laboratory. Materials charge.

Experiences with materials such as leather and plastics.

128 INDUSTRIAL ARTS FOR ELEMENTARY TEACHERS 4

C&I or SED maj only. Materials charge.

Constructional activities and techniques designed to teach use of basic tools and materials appropriate for the elementary school.

153 PUBLICATION PRODUCTION 3

Materials charge.

Graphic arts processes used in journalism to produce a variety of publications.

163 AUTOMOTIVE FUNDAMENTALS 2

Not for credit maj min except in Safety sequence.

Theory and laboratory experiences in maintenance and repair of automobile components; emphasis on preventative maintenance.

190 GRAPHIC COMMUNICATION 4 F,S

Materials charge.

Process and technology of transmitting, storing and using ideas or knowledge in visible graphic form.

191 ENERGY AND POWER 4 F,S

Materials charge.

Operating principles of electricity, electronics, heat engines and fluid power related to energy conversion, transmission, and utilization.

192 INDUSTRIAL MATERIALS AND PROCESSES 4 F,S

Materials charge.

Nature and properties of industrial materials and influence on manufacturing techniques.

200 GENERAL SHOP 4

IT 190, 191, 192. Materials charge.

Organization, operation and methods of teaching multiple activities of industrial arts comprehensive general shop.

203 COMPETENCIES FOR TEACHING 4 F,S

Conc reg req C&I 200. Also offered as HEC 203.

Curriculum planning, teaching, and evaluation strategies, and professionalism for vocational and career education teachers.

210 TECHNICAL DRAFTING 4 F,S

IT 190 or cons inst. Materials charge.

Graphic tools, techniques, and processes; automated drafting, drafting machines, and reprographic equipment used in development and representation of industrial products.

211 ARCHITECTURAL DRAFTING 4 F,S

IT 190 or cons inst. Materials charge.

Problem approach to architecture; emphasis on residential planning and construction. Laboratory devoted to development of working drawings.

212 MACHINE DESIGN 3 F

IT 210. Materials charge.

Theoretical principles and conventional practices used in the design of machines and machine elements.

213 DEVELOPMENTAL DESCRIPTIVE GRAPHICS 4 S

IT 210 Formerly DEVELOPMENTAL DESCRIPTIVE GEOMETRY. Materials charge.

Specialized drafting methods used in revolutions and de-

velopments. Graphical solutions to mathematical and structural problems.

220 WOOD TECHNOLOGY 4 F,S
Materials charge.

Practices of woodworking industries. Properties of wood materials, bench woodworking, carpentry, pattern-making, lamination and machine processes.

221 CONSTRUCTION TECHNOLOGY 4 F,S
Materials charge.

Principles and practices of construction. Materials and methods used to build and enclose sub- and super-structures. Utility systems.

223 PRODUCTION WOODWORKING 4 S
IT 220 or cons inst. Materials charge.

Surveys management and production technologies used in quantity manufacture of wood and related products; production woodworking equipment.

224 INDUSTRIAL FINISHING 3
Materials charge.

Coating and processes used in finishing wood, metal, plastic, other industrial materials. Application and testing of industrial finishes.

225 REINFORCED PLASTICS 4 F,S
IT 192. Materials charge.

Theory, practical application of fiber glass, plastic resins, other materials in hand layup, sprayup, filament winding; other common industrial techniques.

226 CABINET AND FURNITURE PRODUCTION 4 F
IT 220 or cons inst. Materials charge.

Advanced theory and practice in machine setup, operation and maintenance; product design, standards and construction; specialized processes.

230 GENERAL METAL WORK 4 F,S
Not for credit if had IT 232. Materials charge.

Basic theory and practice in hot and cold metal-working processes; sheet metal, bench metal, metal casting, oxy-acetylene and electric welding.

232 WELDING TECHNOLOGY 4 F,S
IT 230 or cons inst. Materials charge.

Advanced theory and practice in modern welding processes; (TIG) tungsten inert gas, (MIG) metallic inert gas, other electric welding processes.

233 MACHINE TOOL TECHNOLOGY I 4 F,S
Materials charge.

Basic machine tool theory and practice; saws, drilling machines, lathes, shapers, milling machines, surface grinders, metrology, heat treatment.

235 MACHINE TOOL TECHNOLOGY II 4 F
IT 233. Materials charge.

Theory computations, setups for precision machining; turning operations, cylindrical grinding, surface grinding, milling operations, indexing, gear cutting.

240 ELECTRICAL TECHNOLOGY 4 F,S
IT 191 or cons inst. Materials charge.

Analysis of electrical and magnetic circuits.

241 ELECTRICAL MACHINERY 3 F
IT 240. Materials charge.

Operation, characteristics and applications of electric motors and generators.

242 ELECTRONICS TECHNOLOGY 4 F,S
IT 240 or PHY 109 or 111 or cons inst. Materials charge. Formerly APPLIED ELECTRONICS.

Operation, characteristics and applications of electron tubes.

244 SEMICONDUCTOR ELECTRONICS 3 S
IT 242. Materials charge.

Operation, characteristics and applications of solid-state diodes and transistors.

246 COMMUNICATIONS ELECTRONICS 4 S
IT 242. Materials charge.

Operation and characteristics of electronic circuits and devices employed in communication systems.

248 INSTRUMENTATION 4 F
IT 242. Materials charge.

Operation, characteristics, calibration, and maintenance of selected electrical and electronic instruments.

250 THE GRAPHIC ARTS PROCESSES 4 F,S
Materials charge.

Theory and practice in basic relief, lithography, screen process, intaglio, photography and many support technologies.

251 GRAPHICS ARTS TECHNOLOGY 4 F,S
IT 250 or cons inst. Materials charge.

Idea visualization, copy preparation, continuous tone copy, process photography, negative assembly, image carriers, ink transfer and finishing operations.

253 PHOTOMECHANICAL PROCESSES 3 F
IT 250 or cons inst. Formerly LAYOUT-DESIGN: APPLICATION TO GRAPHIC REPRODUCTION. Materials charge.

Planning layout, design of printed pieces; paste-up; line and halftone photography.

254 CONTINUOUS TONE COPY PREPARATION 3 F
Materials charge.

Preparation of continuous tone copy for graphic reproduction.

261 AUTOMOTIVE POWER PLANTS 4 F,S
IT 191. Materials charge.

Theory and laboratory experiences in function, maintenance and adjustment of systems and components of automotive type engines.

262 AUTOMOTIVE ELECTRICAL SYSTEMS 3 F,S
IT 191. Materials charge.

Operating principles, applications, diagnosis and repair of automotive electrical systems and components.

263 FLUID POWER MECHANICS 3 F,S
Materials charge.

Operating principles and applications of hydraulic, pneumatic and fluidic components and systems.

264 AUTOMOTIVE SUSPENSION, STEERING AND BRAKE SYSTEMS 3 S
IT 191. Materials charge.

Theory, repair, alignment or adjustment of frames, stabilizing devices, drive lines, rear axles, steering mechanisms and brakes.

**265 AUTOMOTIVE AND MOBILE
FLUID POWER SYSTEMS 4 F**
IT 191. Materials charge.

Operating principles, diagnosis and adjustment of automatic transmission, hydrostatic drives, power steering, power brakes, accessories.

**266 INDUSTRIAL AND UTILITY
ENGINES 4 S**
IT 191. Materials charge.

Theory and laboratory experiences in function, applications and maintenance of utility, outboard, industrial and diesel engines.

**300 CONTEMPORARY INDUSTRIAL
EDUCATION 2**
Materials charge.

Prominent leaders and analysis of trends in industrial education.

**301 INDUSTRIAL ARTS IN THE
ELEMENTARY SCHOOL 2**
Materials charge.

Educational principles underlying industrial arts and their application in the elementary activity program.

**302 EVALUATION TECHNIQUES IN
THE PRACTICAL ARTS AND
OCCUPATIONAL EDUCATION 3**
Materials charge.

Historical background of measurement; examination of objectives and methods; evaluation of student abilities and growth; evaluation of facilities and equipment.

**303 CONSTRUCTION TECHNOLOGY
CURRICULUM (IACP) 4**

The rationale for and the teaching and implementation of construction technology in secondary school, industrial education programs.

**304 OCCUPATIONAL AND JOB
ANALYSIS 3**
Materials Charge.

Techniques and procedures for analyzing occupations and jobs for instructional purposes.

**306 PART-TIME COOPERATIVE
EDUCATION 3 F,S**
Materials charge.

Procedures involved in organizing and operating effective programs of cooperative vocational education.

**307 EMPLOYMENT ANALYSIS FOR
THE EXCEPTIONAL 3 F,S**
Also offered as SED 307. Materials charge.

Diagnosis and instruction of exception children who are placed in occupational education. Synthesizing employment and education for exceptional children.

308 MAN AND TECHNOLOGY 3 US-E

The course is designed to introduce to the student the concept of technology with emphasis on industrial technology, its growth, magnitude and its effect on mankind and basic institutions. Consideration is given to the chronology of technology, technology's effect on the world of work, contemporary technological problems and issues, and technology and the future.

**309 MANUFACTURING
TECHNOLOGY
CURRICULUM (IACP) 4**

The rationale for and the teaching and implementation of manufacturing technology in secondary schools, industrial education programs.

311 INDUSTRIAL OPERATIONS 3 F

A study of industrial principles, practices and methods used to establish a sequence of operations to produce a product.

319 COMPUTER GRAPHICS 3 F,S
Also offered as INF 319. Materials charge.

Combination of graphic techniques and computer programming as means of industrial communication applied to solution and interpretation of technological problems.

320 MASONRY CONSTRUCTION 4
IT 221 or cons inst.

Theory, materials and practices of concrete and masonry construction. Practical experience through on-site activities.

321 CARPENTRY CONSTRUCTION 4 F,S
IT 221 or cons inst. Students are personally responsible for transportation to construction site.

Theory, materials and practices of the building construction industry. Practical experience through on-site activities including carpentry and related trades.

325 INDUSTRIAL PLASTICS 3 F,S
IT 192 or cons inst. Materials charge.

Resins, processing, and fabrication; injection molding, extrusion, rotational molding, foaming, thermo-forming, identification and testing.

**331 MACHINE TOOL
TECHNOLOGY III 4**
IT 233 or cons inst. Materials charge.

Theory and practice involving setups for production machining; numerical control machine programming, turret lathe applications, production processes, technical reports.

**332 APPLIED PHYSICAL
METALLURGY 3 F,S**
IT 192 or cons inst. Materials charge.

Physical and mechanical properties of metals, testing properties, crystalline structure, metallurgical examination, constitution of alloys, heat treatment, industrial applications.

346 INDUSTRIAL ELECTRONICS 3
IT 242 or 244. Materials charge.

Operation and characteristics of electronic circuits and devices employed in non-communications applications.

349 TECHNICAL WRITING 3 F,S
ENG 101 or cons inst. Also offered as ENG 349.

Instruction and practice in the forms and techniques of technical writing, adapted wherever possible to the professional interests of the individual student.

**351 IMAGE CARRIERS AND IMAGE
TRANSFER 3 S**
IT 250 or cons inst. Materials charge.

Laboratory practice of basic printing machines; theory of printing machine systems, trouble-shooting and plate and plate-making systems.

352 CHARACTER GENERATION 3 F
IT 250 or cons inst. Materials charge.

Theory, laboratory practice on photo composition, impact and hot metal machines. Cathode-ray tube and computer application.

353 COLOR SEPARATION 3 S
IT 253 or cons inst. Materials charge.

Theory of color, modern color separation methods, fake color, transmission and reflection copy, color correction, additive and subtractive color.

354 THE GRAPHIC ARTS INDUSTRY 3 F

IT 250 or cons inst. Materials charge.

Graphic arts industrial organization of human resources, physical assets, and money; efficient production of graphic communications products.

361 MOTOR VEHICLE DIAGNOSIS 3 F

IT 261, 262 or cons inst. Materials charge.

Motor vehicle systems diagnosis; emphasis on electrical and fuel systems; experience on mechanical systems.

363 FLUID POWER SYSTEMS DESIGN & ANALYSIS 3 S

IT 263 or cons inst. Materials charge.

Design, sizing and analysis of hydraulic and pneumatic circuits including both machine tool and mobile applications.

386 TECHNICAL COMPUTER PROGRAMMING 3

Also offered as INF 386. Laboratory arranged. Materials charge.

Digital computer systems, programming digital computers and their use in solving problems related to applied sciences and technologies.

398 PROFESSIONAL PRACTICE: EXTERNSHIP IN INDUSTRIAL TECHNOLOGY 1-8 F,S

Ir-sr standing. Prior departmental approval required. May be repeated with sixteen hr max applicable toward graduation.

Practicum to provide planned and supervised work/study experiences in local and state businesses, industries, and governmental agencies.

Safety Courses

171 PRINCIPLES OF ACCIDENT PREVENTION 3 US-E F,S

Materials charge.

Overview of the broad accident problem and underlying factors and theories of accident causation and prevention.

172 DRIVING TASK ANALYSIS 3 F,S

IT 171 or cons inst. Laboratory arranged. Materials charge. Valid Illinois driver's license required.

Physical, mental requirements necessary for safe drivers. Laboratory experience devoted to improvement of student's driving ability.

273 MULTIPLE CAR AND ON-STREET INSTRUCTION 3 F,S

IT 172. Laboratory experiences: operating driving range, BTW lessons. Lab will be arranged. Materials charge. Valid Illinois driver's license required. Formerly ADVANCED TRAFFIC EDUCATION.

Instruction, administration, organization and evaluation of multiple-car and on-street programs.

356 OCCUPATIONAL HEALTH FOR SAFETY PROFESSIONALS 3 S

Not for credit Env. Health maj min. Also offered as AHP 356.

A study of the relationships, effects, and methods of control of chemical, microbiological, radiological, and physical hazards and stresses on the health, efficiency, and well-being of employees.

370 INDUSTRIAL ACCIDENT PREVENTION 3 F,S

Materials charge.

Principles, responsibilities and techniques for developing,

organizing, implementing and administering an industrial safety program.

371 ALCOHOL AND ACCIDENT PHENOMENON 3 F,S

Materials charge.

Effects of alcohol on accident causation. Psychological, physiological, pharmacological actions of alcohol in view of medical, sociological, religious, economic aspects.

372 ACCIDENT INVESTIGATION, RECORDS, AND EVALUATION 3 F,S

Materials charge.

Theory and function of accident investigation, reporting, and analysis systems. Form design and utilization and cost evaluation procedures.

373 AGRICULTURAL ACCIDENT PREVENTION 3 F,S

Also offered as AGR 345. Materials charge.

Major problems of accident causation and prevention applicable to agriculture and the need for farm safety education.

374 METHODS AND MATERIALS OF TEACHING DRIVER EDUCATION 3 F,S

IT 172. Laboratory experience in teaching beginning drivers in traffic simulators, BTW will be arranged. Materials charge. Valid Illinois driver's license required.

Laboratory experience in teaching beginning drivers using driving simulation and dual-control on the street, organization and administration of Traffic Safety programs.

375 TRAFFIC ENFORCEMENT 2 F,S

IT 172 or conc reg or cons inst. Materials charge.

Philosophy, methods of detecting, apprehending violators. Fundamentals of traffic law applicable to laymen, technicians, and teachers.

376 PROBLEMS AND RESEARCH IN ACCIDENT PREVENTION 3

IT 171 or cons inst. Materials charge.

Problems confronting researchers in the safety field; current findings, applicable to the students' area of interest.

377 TRAFFIC ENGINEERING 2 F,S

IT 172 or conc reg or cons inst. Materials charge.

Investigation of vehicle and environmental components of HTS; vehicle inspection, equipment, design; traffic studies performed; traffic planning to reduce collisions, congestion.

378 DISASTER PREPAREDNESS 3 F

Materials charge.

Organizing, directing, coordinating disaster services in schools, industry and local government. Includes T.B.A. 48 hr. disaster exercise.

379 CURRICULUM DEVELOPMENT IN DRIVER EDUCATION 3 F,S

IT 171 and 172. Materials charge.

Behavioral-oriented curriculum applicable to driver education. Behavioral objectives, learning activities, measurement of student performance peculiar to driver education.

380 FIRE PROTECTION AND PREVENTION 4 F,S

IT 171 or cons inst. Materials charge.

Measures related to safeguarding human life and preservation of property in prevention, detection, extinguishing fires.

**381 OCCUPATIONAL SAFETY AND
HEALTH ACT (OSHA) 3**

F,S

Interpretation of the provisions of the Occupational Safety and Health Act. The regulations, standards, and reporting requirements issued pursuant to it.

**383 ADVANCED DRIVER EDUCATION
PROGRAMS 2**

*Valid drivers license, jr. standing, and IT 374 or cons
inst. Lecture and laboratory.*

Techniques for teaching and dealing with common emer-

gency situations in driving.

**398 PROFESSIONAL PRACTICE:
EXTERNSHIP IN SAFETY**

1-8

F,S

*Jr-sr standing. Prior departmental approval required.
May be repeated with sixteen hr max applicable
toward graduation.*

Practicum to provide planned and supervised work/study experiences in local and state businesses, industries, and governmental agencies.

College of Arts and Sciences

Dean: C. Edward Streeter, 141 Stevenson Hall.

The College of Arts and Sciences provides the opportunity for a liberal education in addition to attainment of career-oriented skills. The College includes the Departments of Biological Sciences, Chemistry, Economics, English, Foreign Languages, Geography-Geology, History, Information Sciences, Mathematics, Philosophy, Physics, Political Science, Psychology, Sociology, Anthropology and Social Work and Speech Pathology-Audiology. The College offers the core of the University Studies program required of all undergraduates, a wide range of academic major and minor programs for meeting baccalaureate degree requirements, master's programs in most disciplines and doctoral programs in Biological Sciences, Economics, English, History and Mathematics. Course offerings span the humanities, social and behavioral sciences, natural sciences, and mathematics.

College of Arts and Sciences Programs

Arts and Sciences Degree Programs

This program is part of the University's Contract Major and Minor, but is administered separately in the College of Arts and Sciences. Further Information: Dean of the College of Arts and Sciences. Liberal arts program only; no teacher education program available.

The Arts and Sciences program is a restricted Contract Major for students in the liberal arts and sciences whose goals cannot be accommodated by other academic majors within the College. Admission requirements are:

1. A minimum comprehensive ACT score at the 85th percentile for freshmen. Entering freshmen enroll as General Students and apply for admission to this major prior to completion of University Studies.
2. An overall GPA of 3.00 or higher for non-freshmen and transfer students.
3. Students who do not meet the criteria above may be considered for admission to the program on the recommendation of two faculty members from different Arts and Sciences departments.
4. Petition for admission to this major must occur prior to the completion of 90 hours, or at least 15 hours of approved Arts and Sciences program work must be completed after admission to the program.

A concentration in Urban Studies is available to students under the Arts and Sciences major. Interested students may contact Dr. Joseph Honan in the Department of Political Science. A concentration in Historical Archeology is available also to students under the Arts and Sciences major. Interested students may contact the department chairperson in either History, or Sociology, Anthropology and Social Work for information about requirements of the program. A concentration in Quantitative Economics is available to students under the Comprehensive Arts and Sciences major. Interested students may contact the department chairperson in either Economics or Mathematics.

MAJOR IN ARTS AND SCIENCES

- 35 hours required in Arts and Sciences in addition to the requirements for University Studies.
- Maximum of 25 hours from any one department.
- Individual program developed with a designated faculty

adviser and approved by the Dean of the College of Arts and Sciences.

COMPREHENSIVE ARTS AND SCIENCES

MAJOR

- 50 hours required in Arts and Sciences.
- Maximum of 25 hours from any one department.
- Minimum of 18 hours from one department required.
- Individual program developed with a designated faculty adviser and approved by the Dean of the College of Arts and Sciences.

Latin American Studies Program

No major offered. Further Information: Dean of the College of Arts and Sciences. Identical liberal arts and teacher education program.

MINOR IN LATIN AMERICAN STUDIES

- 24 hours in Latin American Studies courses required.
- Required courses: Two semesters of college Spanish or Portuguese, or the equivalent. Student completes, with the approval of an adviser designated by the Dean of Arts and Sciences, a planned program of study in which courses are elected in at least three fields other than Spanish and Portuguese. Work in the fields may include appropriate courses in AGR, ART, BSC, ECO, FOR, GEO, HIS, POS, and SOA.

This program must be planned in consultation with an academic adviser. With the approval of the adviser, courses in fields other than those listed above may be counted toward the minor, providing those courses are considered relevant to the course of study. No more than two courses in the student's major field of study, however, will be applicable toward the minor in Latin American Studies. Students interested in this program should consult the Dean of the College of Arts and Sciences.

Social Sciences Program

Degrees Offered: B.A., B.S. Further Information: Department of History. Identical liberal arts and teacher education programs.

COMPREHENSIVE SOCIAL SCIENCES MAJOR

- 55 hours in Social Sciences (ECO, HIS, POS, and SOA courses).
- Required courses: at least 8 hours in Economics, including ECO 100 and 101; at least 16 hours in History with 8 each in United States and world history, including HIS 121, 123 or 124, 135, 136; at least 8 hours in Political Science, including POS 105; at least 8 hours in Sociology, including SOA 106.

Students who wish to pursue this major consult the adviser to Social Sciences students in the Department of History.

Biological Sciences

Chairperson: Howard R. Hetzel, 206 Felmley Hall.

Faculty: Professors: Birkenholz, Brockman, Brown, Chuang, Dilks, Frehn, Hetzel, Liberta, Mentzer, Mockford, Nadakavukaren, Rhymer, Tone, Ward, Weigel, Willis. Associate Professors: Anderson, Chasson, Fitch, Huizinga, Jensen, McCracken, Mizer, Schwalm, D.F. Weber. Assistant Professors: Burdick, Cain, Cole, Cralley, Katz, Neville, Parker, Preston, Riddle, D.H. Weber. Lecturer: C. Hung. Adjunct Faculty: Brawn, Martin, Miller, Reardon. Joint Appointments with Chemistry: Richardson, Tsang.

Biological Sciences Programs

Degrees Offered: B.A., B.S. Further Information: Department of Biological Sciences. Identical liberal arts and teacher education programs, except that the Community and Public Health sequence in the major is a liberal arts program only.

MAJOR IN BIOLOGICAL SCIENCES

Biological Sciences Sequence (liberal arts or teacher education): 37 hours in Biological Sciences required. Required courses: BSC 121, 190, 216, 260, 304, 319, with a minimum of 8 additional hours of laboratory courses. Chemistry through organic chemistry and one year of general physics also required.

Community and Public Health Sequence (liberal arts only): 37 hours in Biological Sciences required. Required courses: BSC 121, 190, 216, 240, 242, 259, 260, 261, 304, 319, 283 or 360 or 383. A maximum of 3 hours of 259 may be applied to the total requirement of 37 hours. Chemistry through organic chemistry and one year of general physics also required. In addition, an internship experience agreed upon by the department must be completed. Additional courses in psychology, philosophy, sociology-anthropology, allied health, and information sciences should be elected in consultation with an adviser.

COMPREHENSIVE BIOLOGICAL SCIENCES MAJOR

- 53 hours in Biological Sciences required.
- Required courses: BSC 121, 190, 216, 260, 304, 319. Chemistry through organic chemistry and one year of general physics also required.

MINOR IN BIOLOGICAL SCIENCES

- 24 hours in Biological Sciences required.
- Required courses: BSC 121, 190.
- 16 hours of electives selected from among BSC 122, 123, 160, 191, 192, 195, 199, 201, 216, 217, 260, 283, 294, 300, 319, 320, 331, 333, 334, 360, 365, 381, 383, 390, 391, 392, 394, 395, 396. At least 8 of the elective hours must be of 200 or 300 level courses. Transfer credit will be evaluated on an individual basis.

Biological Sciences Courses

100 INTRODUCTION TO BIOLOGICAL SCIENCES 3 US-C F,S
Not for credit maj min. Lecture and laboratory.
Biological principles in relationship to man.

102 SOUTHEASTERN FIELD STUDIES 2 US-C S
Lecture and laboratory. Course fee required.
Study of plant and animal communities in coastal and inland areas of Florida.

110 GREEN THUMB BOTANY 3 US-E F,S
Not for credit maj min. Lecture and laboratory. Materials charge.

Introduction to the basic principles of plant structure, function, growth, propagation, and diseases with emphasis on applications to the growth of house plants.

121 GENERAL BOTANY 4 US-C F,S
Lecture and laboratory.
Introduction to the principles of structure, function, growth, reproduction, and classification of plants.

122 COMPARATIVE BOTANY 4 US-C F,S
BSC 121. Lecture and laboratory.
Morphology, phylogeny, and taxonomy of non-vascular plants.

123 COMPARATIVE BOTANY 4 US-C F,S
BSC 121. Lecture and laboratory.
Morphology, phylogeny, and taxonomy of vascular plants.

145 HYGIENE AND THE BIOLOGY OF MAN 2 US-E F,S
Formerly HYGIENE.

Practical human physiology and the nature of disease; emphasis on health problems related to nutrition, cardiovascular and respiratory diseases, drug use, sex and reproduction.

160 INTRODUCTORY MICROBIOLOGY 4 US-C F,S
Not for credit maj or if had BSC 260. Lecture and laboratory. Formerly ELEMENTARY BACTERIOLOGY.

Introduction to microorganisms, their application and relationship to man and his environment.

170 GENETICS AND SOCIETY 3 US-E F,S
Not for credit maj min.

An introduction to genetics and human heredity with an emphasis on the impact of recent advances in genetics upon society.

181 FUNCTIONAL ANATOMY OF MAN 4 US-C F,S
Not for credit maj. Lecture and laboratory. Formerly FUNCTIONAL ANATOMY.

Fundamentals of anatomy and physiology for students in special education, health education, nursing, and psychology.

182 FUNCTIONAL ANATOMY OF MAN 4 US-C F,S
BSC 181. Lecture and laboratory. Cont of 181. Formerly FUNCTIONAL ANATOMY.

190 GENERAL ZOOLOGY 4 US-C F,S
Lecture and laboratory.
Classification, morphology, physiology, genetics, evolution, and ecology of representative animal phyla.

191 INVERTEBRATE ZOOLOGY 4 US-C F
BSC 190. Lecture and laboratory.

Phylogeny, comparative functional anatomy, and embryology of the invertebrates.

192 COMPARATIVE VERTEBRATE ANATOMY 4 US-C F,S
BSC 190. Lecture and laboratory.
Evolution and comparative anatomy of vertebrates.

195 INTRODUCTION TO OCEANOGRAPHY 3 US-C S
Also offered as GEO 195.

General principles of biology, chemistry, geology, and physics as applied to a study of the world's oceans.

199 ANIMAL BEHAVIOR 3 US-E F,S
An introduction to ethology — the biology of behavior. Behavior studies as performed in the natural habitat. Invertebrate and vertebrates, including man, will be considered.

201 GENERAL ECOLOGY 4 F,S
BSC 121, 190 or equivs. Lecture, laboratory, and field trips.
Relationships among living organisms and their environ-

ment at ecosystem, community, population, and individual levels.

202 ECOLOGY OF MAN 3 US-E

Not for credit maj min.

A study of the general principles and applications of ecology with emphasis on man's place in the ecosystem and how environmental problems are related to fundamental ecological principles.

203 NATURAL SCIENCE 3 F,S

Not for credit maj min. Lecture, laboratory, and field trips.

Insects, fishes, amphibians, and reptiles. For students in elementary education.

204 NATURAL SCIENCE 4 F,S

Not for credit maj min. Lecture, laboratory, and fieldwork.

The natural history of wildflowers, trees, birds, and mammals.

216 GENERAL PHYSIOLOGY 4 F,S

BSC 121, 190 and Org Chem. Lecture and laboratory.

Chemical and physical aspects of life processes.

217 PLANT PHYSIOLOGY 4 F,S

BSC 216. Lecture and laboratory.

Plant structure and function: photosynthesis, translocation, growth and development.

240 MODERN HEALTH PROBLEMS 3 S

Lecture-discussion.

Emphasis on recent developments in selected critical health areas and their application to individual health habits and attitudes.

242 COMMUNITY PUBLIC HEALTH 2 S

Introduction to public health at local, state, and national levels, including the relationships among public health departments, voluntary health agencies, and schools. Includes emphasis on selected community health problems.

248 SCHOOL HEALTH 2 F

BSC 145.

An overview of the school health program. Designed to acquaint the teacher with the health needs of children and the methods and materials available for health education.

259 HEALTH CENTER 1-6

BSC 242.

Health legislation, services, and education programs.

260 MICROBIOLOGY 4 F,S

BSC 121 or 190 and Org Chem. Not for credit if had BSC 160. Lecture and laboratory.

Uniqueness, diversity, ecology, molecular biology, and practical applications of microorganisms.

261 MICROBIAL PATHOGENS OF MAN 4 F,S

BSC 260. Lecture and laboratory.

Morphology, cultivation, identification, and classification of bacteria, fungi, rickettsias, and viruses associated with certain diseases of man.

283 ANIMAL PHYSIOLOGY 4 F,S

BSC 216. Lecture and laboratory.

The physical and chemical basis of system physiology with reference to invertebrates and vertebrates.

294 ENTOMOLOGY 4 US-C F,S

BSC 190. Lecture and laboratory.

Taxonomy and life histories of insects.

300 and 301 READINGS IN BIOLOGICAL SCIENCES 1 ea F,S

Readings of classical and modern biological literature.

302 HISTORY OF BIOLOGY 3 F

A study of great biologists emphasizing their contributions to the development of the biological sciences.

303 NATURAL SCIENCE FOR ELEMENTARY TEACHERS 3 F,S

Not for credit maj min.

Present-day developments in science instruction.

304 SEMINAR IN BIOLOGY 1 F,S

Oral and written reports on current topics in biology.

305 SPECIAL PROBLEMS IN BIOLOGY 1-3 F,S

Projects must be approved by the supervising faculty member and dept chrprn prior to reg.

306 REGIONAL AND AREA STUDIES 1-9 US-E

Cons inst. Usually given cooperatively with other depts.

Intensive study of particular lands, environments, cultures, and peoples.

307 METHODS IN THE TEACHING OF BIOLOGY 2

Senior or graduate standing and cons of inst.

Methods, techniques, materials, and problems peculiar to the teaching of biology at the secondary school and college levels.

318 LABORATORY TECHNIQUES 2 F,S

Lecture and laboratory.

Preparation of microscope slides, special techniques for whole mounts, plastic embedding, plastic injections, and nerve preparations.

319 GENETICS 4 F,S

BSC 121, 190, and 260 or cons inst. Lecture and laboratory.

Data and concepts of genetics from Mendel to the present.

320 PLANT PATHOLOGY 4 F

BSC 121. Lecture and laboratory.

Morphology, life histories, host-parasite relationships and control measures for fungal, bacterial, and viral pathogens.

331 TAXONOMY AND EVOLUTION OF VASCULAR PLANTS 4 S

BSC 121. Lecture and laboratory.

Plant classification and evolution with emphasis on native and naturalized species.

332 TAXONOMY OF NON-VASCULAR PLANTS 4

Plant classification with emphasis on the evolution of algae, fungi, and bryophytes.

333 EVOLUTIONARY MORPHOLOGY OF VASCULAR PLANTS 4 F

BSC 121. Lecture and laboratory.

Comparative survey of structure, life histories, reproductive mechanisms, and evolutionary relationships of vascular plants.

334 INTRODUCTORY MYCOLOGY 3

BSC 121. Lecture and laboratory.

Morphology, taxonomy, and evolution of the fungi.

340 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 F

Development and organization of school health programs including services, environment, and instruction.

360 SANITATION 4 F
BSC 260. Lecture and laboratory.
 Fundamental principles of environmental sanitation: water, waste water, streams, solid wastes, food, air, and radiation.

365 PHYCOLOGY 4
BSC 121. Lecture and laboratory.
 Morphology, taxonomy, physiology, and ecology of the algae.

381 APPLIED HUMAN ANATOMY 4 F,S
BSC 182 or HPR 182 or cons inst. Lecture and laboratory.
 Musculo-skeletal and nervous systems emphasized.

382 THE EYE — A LABORATORY AND CLINICAL STUDY 3 F,S
 Anatomy and physiology of the eye. Lecture and laboratory, supplemented with clinical demonstrations on the detection and care of eye disorders.

383 PARASITOLOGY 4 F
BSC 190. Lecture and laboratory.
 Morphology, life histories, and host-parasite relationships of arthropod, helminth, and protozoan parasites.

385 PHYSICAL DEFECTS — SURVEY AND REHABILITATION 3 F,S
BSC 381. Also offered as HPR 385. Lecture and laboratory.
 Identification and treatment of physical defects of handicapped children; special services, equipment, and procedures for school programs.

386 GROSS ANATOMY 4 F
BSC 182 or 192 or HPR 182.
 Human body exclusive of head and neck.

387 GROSS ANATOMY 2 S
BSC 182 or 192 or HPR 182.
 Human head and neck.

390 EVOLUTION 3 S
BSC 319 or cons inst.
 Environmental, behavioral, and genetic mechanisms involved in the processes of evolution.

391 INSECT MORPHOLOGY 4 S
BSC 190. Lecture and laboratory. Formerly ENTOMOLOGY.
 Comparative anatomy of the insects.

392 EMBRYOLOGY 4 F,S
Lecture and laboratory.
 Comparative embryology of the vertebrates with emphasis on avian and mammalian embryos.

394 PROTOZOOLOGY 4
BSC 190. Lecture and laboratory.
 Survey of the Phylum Protozoa, emphasizing morphology, physiology, reproduction, and taxonomy.

395 BIOLOGY OF THE LOWER VERTEBRATES 4 S
BSC 190. Lecture and laboratory.
 The biology of fish, amphibians, and reptiles.

396 BIOLOGY OF THE HIGHER VERTEBRATES 4 S
BSC 190. Lecture, laboratory, and field trips.
 The biology of birds and mammals.

Chemistry

Chairperson: Douglas West, 305 Felmley Hall.

Faculty: Professors: Duty, House, Ichniowski, Kurz, Reiter,

Ryder, Shulman, West. Associate Professors: Bunting, Hansen, Hunt, Richardson, Stevenson, Tsang. Assistant Professors: Bath, Clark, Hansen, Paschal, Smith, Sontum. Lecturer: Liu.

Chemistry Programs

Degrees Offered: B.A., B.S. Further Information: Department of Chemistry. Liberal arts and teacher education programs available; a teacher education student may select either the B.A. or B.S. program. The Department of Chemistry is on the approved list of the American Chemical Society.

B.S. CHEMISTRY MAJOR

- 37 hours required in Chemistry, including at least 27 hours in courses numbered 200 or higher.
- Required courses: CHE 140 and 141 (or 150), 230, 232, 233, 315, 350, 360, 361, 362, 363; one year of physics, preferably PHY 110 and 111; approved elective courses selected from among CHE courses numbered 200 or higher.
- One year of a foreign language is highly recommended, preferably, German, Russian, or French.

B.A. CHEMISTRY MAJOR

- 37 hours required in Chemistry, including at least 27 hours in courses numbered 200 or higher.
 - Required courses: CHE 140 and 141 (or 150), 230, 232, 360, 362; approved elective courses selected from among CHE courses numbered 200 or higher.
- Approved advanced elective courses from other natural sciences departments may replace up to a maximum of 6 of the required 27 hours. Students electing this program should also consult University requirements for the B.A. degree.

MINOR IN CHEMISTRY

- 23 hours required in Chemistry, including at least 13 hours in courses numbered 200 or higher.
- Required courses: CHE 140 and 141 (or 150).

Basic Chemistry Courses for Majors: Chemistry majors are normally expected to take Chemistry 140 and 141. A student who demonstrates high achievement in Chemistry at the pre-college level may take 150 in place of 140 and 141. Chemistry 110 and 114 may be taken in place of 140. This 6-hour sequence is designed for students who are not sufficiently prepared for Chemistry 140 and for students who elect to become Chemistry majors or minors after having completed 110. Credit toward graduation is not given for both CHE 104 and 110, both CHE 110 and 140, and both CHE 114 and 140.

Chemistry Courses

102 SCIENCE AND MODERN MAN 3 US-C F,S

Open only to students with no college credit in CHE.
 Selected topics from chemistry and science in general and illustration of relevance of chemistry and other sciences to today's world.

104 ELEMENTS OF CHEMISTRY 4 US-C F,S

Lecture and laboratory. Not for credit if had CHE 110. Materials and locker charge of \$2.

Survey of general chemistry, including organic and biochemistry. Designed for students in home economics, nursing and other health related fields.

110 FUNDAMENTALS OF CHEMISTRY 4 US-C F,S

Not for credit if had CHE 140, 141, or 150.

One-semester introductory survey of fundamental concepts, laws and theories of chemical science and their application to common chemical systems.

112 FUNDAMENTAL CHEMISTRY LABORATORY 1 US-C F,S

CHE 110 or conc reg. Materials and locker charge of \$2.

Experience in manipulation of fundamental laboratory apparatus and means of carrying out chemical synthesis and measurements on chemical systems.

114 FUNDAMENTALS OF CHEMISTRY (SUPPLEMENTARY) 2 US-C F,S

CHE 110. Designed to bring the background of the student up through the level of CHE 140. Not for credit if had CHE 140.

140 GENERAL CHEMISTRY I 5 US-C F,S

First half of a two-semester sequence. Designed primarily for students with HS credit in CHE. Algebra is required. Not for credit if had CHE 110, 114.

Fundamental principles of stoichiometry, periodicity, atomic structure, and thermochemistry with applications to gases, liquids, solids and solutions.

141 GENERAL CHEMISTRY II 5 US-C F,S

CHE 114 or 140. Lecture and laboratory. Materials and locker charge of \$2.

Continuation of CHE 140. Introduction to equilibrium, electrochemistry, acid-base theory, coordination compounds, inorganic and organic chemistry.

150 GENERAL CHEMISTRY 6 US-C F

Cons dept chrpn. Lecture and laboratory. Satisfactory completion of 150 replaces the 140-141 requirement. Admission is by invitation based on the results of placement tests and other evaluation techniques. Materials and locker charge of \$2.

Accelerated study of the fundamentals of chemistry, designed for the student who demonstrates exceptional ability at the pre-college level.

215 FUNDAMENTALS OF ANALYTICAL CHEMISTRY 3 F,S

CHE 141 or 150. Lecture and laboratory. Materials and locker charge of \$2.

Theory and practice of selected modern analytical methods.

220 ELEMENTARY ORGANIC CHEMISTRY 5 US-C F,S

CHE 112 or 141. Not for credit if had CHE 230. For non-majors. Lecture and laboratory. Materials and locker charge of \$2.

One-semester survey of organic chemistry. Fundamental principles of structure and mechanisms of organic reactions.

230 ORGANIC CHEMISTRY I 4 F,S

First half of a two-semester sequence. CHE 141 or 150. Not for credit if had CHE 220. Lecture and laboratory. Materials and locker charge of \$2.

Introduction to chemistry of aliphatic and aromatic organic compounds together with laboratory practice illustrating preparations and reactions typical of functional groups.

232 ORGANIC CHEMISTRY II 3 F,S

CHE 230 or cons dept chrpn.

Continuation of CHE 230, including synthetic and mechanistic features of organic reactions.

233 ORGANIC CHEMISTRY LABORATORY II 2 F,S

CHE 232, conc reg or cons dept chrpn. Materials and locker charge of \$2.

Laboratory practice in newer techniques and methods of organic chemistry.

242 BASIC BIOCHEMISTRY 3 F,S

One sem of organic chemistry. Not for credit if had CHE 342.

Introduction to the chemistry of carbohydrates, lipids, proteins, nucleic acids and enzymes. Brief treatment on vitamins and intermediary metabolism.

243 BASIC BIOCHEMISTRY LABORATORY 2

CHE 242 or conc reg. Lecture and laboratory. Materials and locker charge of \$2.

Introduction to practical biochemical techniques and procedures used in the analysis of biological compounds. Laboratory designed for students in allied health, biology, agriculture, home economics, and nursing and is a supplement of CHE 242.

280 ENVIRONMENTAL CHEMISTRY 3 F

CHE 141 or 150 and any 200 level chemistry course or cons inst.

Aquatic, soil, and atmospheric chemistry and the attendant problems of water, soil, and air pollution. Causes of pollutants and methods of analyzing for them.

290 RESEARCH IN CHEMISTRY 1-4 F,S

19 hours of CHE; cons dept chrpn. Only three hrs are applicable towards the maj. May be repeated. Max 6 hrs.

Development of a better understanding of the significance of research in chemistry through the study of a research problem.

301 TEACHING OF CHEMISTRY 3 S

20 hrs of CHE. For teaching maj only.

Modern methods and problems confronting teachers of chemistry. Involves study of CBA, CHEMS, and regular high school chemistry.

302 INDUSTRIAL CHEMISTRY 3

22 hrs of CHE. Includes trips to industries and research labs.

Scientific aspects of community and industrial problems.

308 CHEMICAL LITERATURE 1

20 hrs of CHE.

Chemical literature in journals, handbooks, abstracts, monographs, and patents. Problems requiring literature searches in all fields of chemistry.

311 LABORATORY INSTRUMENTATION 3

10 hrs of CHE. Not for credit maj — see CHE 315. Lecture and laboratory. Materials and locker charge of \$2.

Instruments used in chemical analysis. Applications to qualitative and quantitative analyses.

315 ANALYTICAL CHEMISTRY 3 F,S

CHE 362 or conc reg or cons inst. Lecture and laboratory. Materials and locker charge of \$2.

Emphasis on modern instrumental methods of chemical analysis including electroanalytical, optical and chromatographic methods.

323 QUALITATIVE ORGANIC ANALYSIS 3 F

CHE 233. Lecture and laboratory. Materials and locker charge of \$2.

Identification of organic compounds with emphasis on modern spectrometric methods.

325 MODERN METHODS AND TECHNIQUES IN ORGANIC CHEMISTRY 2 or 3

CHE 233 or cons dept chrpn. Materials and locker charge of \$2.

Modern laboratory techniques associated with synthesis, quantitative analyses, distillations and chromatography. Organic literature searches will be stressed.

342 GENERAL BIOCHEMISTRY I 3 F,S

CHE 232 or one year of organic chemistry. Not for credit if had CHE 242.

Survey of the chemical and physical properties of amino acids, carbohydrates, lipids and nucleic acids, and structure and function of proteins, including enzyme kinetics.

343 BIOCHEMISTRY LABORATORY 3

CHE 342 or conc reg or CHE 242 and cons inst. Lecture and laboratory. Materials and locker charge of \$2.

Application of biochemical principles and methods discussed in companion course, CHE 342.

344 GENERAL BIOCHEMISTRY II 3 F,S

CHE 342 or CHE 242 and cons inst.

A survey of important aspects of intermediary metabolism, metabolic regulation, membrane transport and bioenergetics. Topics will include hormonal controls and immunological response.

350 INORGANIC CHEMISTRY 3 F,S

CHE 362 or cons inst.

Survey of modern inorganic chemistry including structure of inorganic compounds, coordination chemistry, non-aqueous solvents and selected inorganic reactions.

351 INORGANIC PREPARATIONS 2

CHE 350 or conc reg. Materials and locker charge of \$2.

Preparation of typical inorganic compounds illustrating special and advanced techniques.

358 RADIOCHEMISTRY 2 F

CHE 362.

Survey of nuclear models, theories, and decay schemes. Application of radiochemical methods to elucidation of reaction mechanisms and molecular structure.

360 PHYSICAL CHEMISTRY I 3 F,S

CHE 141 or 150; PHY 109 or 111; 8 hrs of CHE or PHY courses numbered 200 or higher; MAT 116 or 136.

First of a series in theoretical chemistry dealing with descriptions of gases, liquids, solutions, thermochemistry, thermodynamics, chemical and phase equilibrium, kinetic theory, and chemical kinetics.

361 PHYSICAL CHEMISTRY LABORATORY 1 F,S

CHE 360 or conc reg. Materials and locker charge of \$2.

Laboratory applications of principles treated in physical chemistry.

362 PHYSICAL CHEMISTRY II 3 F,S

CHE 360.

Continuation of CHE 360, including ionic equilibrium, conductance, electromotive force, spectroscopy, molecular theory and miscellaneous applications of quantum theory.

363 PHYSICAL CHEMISTRY LABORATORY II 1 F,S

CHE 362 or conc reg. One three-hour laboratory period per week. Materials and locker charge of \$2.

Laboratory studies of the derivations and applications of principles treated in physical chemistry.

380 TOPICS IN CONTEMPORARY CHEMISTRY 1-3 F,S

Cons inst. May be repeated.

New concepts and recent developments in the fields of organic, inorganic, analytical, physical and biochemistry.

Economics

Chairperson: James V. Koch, 338 Schroeder Hall.

Faculty: Professors: Firestone, Harden, Hassan, Koch, Laumas, McCarney, Poe. Associate Professors: Cebula, Chizmar, Cohn, Eike, Halpin, Owen, Ram, Ramsey. Assistant Professors: Blomquist, Dillingham, Hiebert, Jensen, Ostrosky, Spencer. Instructors: Deloose, Manahan, Ulmer, Wingler. Faculty Assistants: Bouchard, Werthwein.

Economics Programs

Degrees Offered: B.A., B.S. Further Information: Department of Economics. Liberal arts major and minor; Minor only in teacher education available.

MAJOR IN ECONOMICS

— 27 hours in Economics required.

— Required courses: ECO 100, 101, 130, 131, 340, 341. MAT 115 or 121 may be substituted for ECO 130. MAM 100 may be substituted for ECO 131. Students majoring in Economics may elect a concentration in one of the following three areas in which courses are listed for advising purposes only:

1. Business and Government: Required courses above plus FAL 110 and 111, ACC 131 and 132, and ACC 160 or MAT 168.
2. Graduate School: Required courses above plus MAT 115, 116, 117, 168, 350, 351; ECO 330, 331, and 333.
3. Social Sciences: Required courses above plus 12 hours in the Social Sciences (POS, PSY, SOA) with at least one course from each of these three departments.

MINOR IN ECONOMICS

— 18 hours in Economics required.

— Required courses: ECO 100, 101.

— MAT 115 or 121 and MAM 100 may be used to meet the requirements of the minor.

A concentration in Quantitative Economics is available to students under the Comprehensive Arts and Sciences major, and under the Contract Major. Courses in this program should include ECO 100, 101, 131, 330, 331, 333, 340, and 341; MAT 115, 116, 117, 175, 350, 351. Interested students may contact the Department Chairperson in either Economics or Mathematics.

Economics Courses

100 PRINCIPLES OF ECONOMICS I 3 US-D F,S

Elements of supply and demand analysis, national income determination, the banking system, fiscal and monetary policy, international finance (or balance of payments problems) and economic growth and development.

101 PRINCIPLES OF ECONOMICS II 3 US-D F,S
ECO 100.

Foundations of supply and demand, behavior of firms under various market structures, factor pricing and the distribution of income, international trade.

130 INTRODUCTION TO MATHEMATICAL ECONOMICS 3 F
ECO 101, MAT 120 or cons inst.

A systematic exposition of basic mathematical methods; algebra, calculus, and linear algebra and the relation of these techniques to various types of economic analyses.

131 BUSINESS AND ECONOMIC STATISTICS 3 F,S
ECO 101, MAT 120 or cons inst. Not for credit if had BUA 100.

Introduction to statistical concepts and methods most useful in business and economic analysis. Descriptive statistics, techniques of hypothesis testing, interval estimation, and linear association are used to illustrate both effective and fallacious uses of statistics.

205 DEVELOPMENT ECONOMICS 3 F
ECO 101.

Principal determinants of economic development and problems associated with generating and accelerating economic growth in less-developed areas.

210 COMPARATIVE ECONOMIC SYSTEMS 3 F,S
ECO 101.

Theoretical and descriptive aspects of Capitalism, Communism, Fascism, and Socialism. Emphasis given to process of economic decision-making with respect to allocation of resources and economic growth.

215 MONEY AND BANKING 3 F,S
ECO 101.

Development and growth of the monetary system. Emphasis on monetary theory and applied policy issues.

225 LABOR ECONOMICS AND LABOR PROBLEMS 3 F,S
ECO 101.

Economic aspects of labor and trade unionism. Emphasis on wage determination, bargaining, manpower, and effects of unions.

306 REGIONAL AND AREA STUDIES 1-9 US-E

An intensive study of particular lands, environments, cultures and peoples. May be given in cooperation with other departments on or off campus. The areas to be studied, participating departments, and credit hours available in the several departments will be announced each time the course is offered.

310 DEMOGRAPHIC ECONOMICS 3 S
ECO 101.

Theoretical and empirical study of the economics of population changes, distributions, and characteristics. Population dynamics, policy issues, and economic consequences.

320 INDUSTRIAL ORGANIZATION AND PRICES 3 S
ECO 101.

Theoretical and empirical analysis of basic influences on industrial markets and performances. Market practices, the role of competition, and related policy issues.

326 ECONOMICS OF HUMAN RESOURCES 3 F
ECO 101. Formerly MANPOWER ECONOMICS.

Theoretical and empirical analysis of labor markets. Education and training, labor mobility, wage structure, discrimination, unemployment, wage and incomes policies.

330 MATHEMATICAL ECONOMICS 3 F,S
ECO 101 and coursework in differential and integral calculus.

Integral calculus, difference equations, differential equations and linear algebra in relation to economic theory.

331 INTERMEDIATE ECONOMIC STATISTICS 3 F,S
ECO 131 and coursework in differential and integral calculus.

Intermediate level probability and sampling theory. Hypothesis testing. Estimation. Basic econometric principles. Use of common regression packages such as ESP.

333 OPERATIONS RESEARCH 3 F
ECO 131 and coursework in differential and integral calculus.

Quantitative techniques for economics analysis and decision making. Includes linear programming, input-output analysis, game theory, queuing theory, and probabilistic models, with emphasis on applications to theory of the firm.

335 ECONOMICS OF TRANSPORTATION AND PUBLIC UTILITIES 3 F
ECO 101. Formerly TRANSPORTATION.

An analysis of contemporary issues in transportation and public utilities, with emphasis on the impact of regulation.

339 MANAGERIAL ECONOMICS 3 F
ECO 101.

Theoretical and applied study of demand, costs, and production related to the theory of the firm. Developments of current interest; empirical studies intended to affirm or disaffirm applicability of economic principles.

340 INTERMEDIATE MICROECONOMIC THEORY 3 F,S
ECO 101.

Emphasis on topics regarding resource allocation, scarcity, and distribution of income; theory of consumer choice, theory of the firm, market structures, factor markets, distribution of income, welfare economics, and general equilibrium.

341 INTERMEDIATE MACROECONOMIC THEORY 3 F,S
ECO 101.

Theory of income, employment, interest rate and price level determination. The government's influence on these variables via monetary and fiscal policies.

345 INTERNATIONAL ECONOMICS 3 F,S
ECO 101.

Basic aspects of the international economy as the reasons for trade, the terms of trade, and the adjustments necessary to achieve the highest possible plane of living, as well as balance of payments and exchange theory. Contemporary applications such as exchange crises, trade barriers, and the links between trade and development.

350 PUBLIC FINANCE 3 F
ECO 101.

Economic role of government in the economy. Analysis of the economic impacts of government expenditures and taxes on the allocation of resources, the distribution of

74 Economics, English

income, employment, prices and economic growth.

351 STATE AND LOCAL FINANCE 3 S ECO 101 or cons inst. Formerly ECO 451.

Economic impacts of state and local tax and expenditure programs, intergovernmental fiscal relations and problems of metropolitan areas.

355 ENVIRONMENTAL ECONOMICS 3 S ECO 101.

Theoretical and empirical analysis of environmental pollution generation and of corrective policies. Emphasis upon the resource allocation implications of public policy decisions.

360 QUANTITATIVE ECONOMIC HISTORY 3 S ECO 101.

Recent empirical studies and applications of economic theory to historical problems in an American context.

372 HISTORY OF ECONOMIC THOUGHT 3 S ECO 101.

A study of economic analysis from the Mercantilists to the American Institutionalists. Relates earlier schools of thought to the contemporary.

English

Chairperson: Carmen C. Richardson, 409 Stevenson Hall.

Faculty: Professors: Bishop, Crowell, Gimmetstad, Heissler, Jochums, Linneman, Ranta, Sutherland, White. Associate Professors: Alexander, Allen, Bellas, I. Brosnahan, L. Brosnahan, Dammers, Drawver, Duncan, Ericksen, C. Harris, Hutton, Kagle, McMahan, Morgan, Renner, Richardson, Tarr, Woodson. Assistant Professors: Albert, Balls, Carr, Cox, Eatherly, Fielding, Funk, Getsi, Grever, Helgeson, Holden, Mentzer, Neuleib, Newby, Nietzsche, Parmantie, Pilch, Scrimgeour, Templeton, Werner, Wilcox, Wise. Instructors: Attora, Boaz, Davis, Day, Delmar, Feaster, Gorrell, Gratchner, V. Harris, Hungerford, Kizer, Kohlmeier, Littler, McNulty, Moran, Schroeder, Schwab, Walsh.

English Programs

Degrees Offered: B.A., B.S. Further Information: Department of English. Separate liberal arts and teacher education programs.

MAJOR IN ENGLISH

— 36 hours in English required, *exclusive* of ENG 101 and courses in the teaching of English (290, 291, 296, 297, 370, 372, 375, 390, 395).

— Required Courses: ENG 102, 103.

— Suggested program, but not required (student may depart from suggested program by filing a plan of study for approval of the chairperson of the department or designated representative):
ENG 102, 103.

12 hours of British Literature, including two courses from each of the following areas: To 1660 — ENG 213, 214, 215, 222, 223, 312, 313, 320, 325.

After 1660 — ENG 216, 217, 218, 219, 317, 324, 327, 386, 387, 388.

6 hours of American Literature, including one course from each of the following areas:

To 1870 — ENG 231, 232.

After 1870 — ENG 233, 234, 235, 236, 336.

12 hours of electives from any of the above courses or from ENG 145, 150, 170, 241, 243, 245, 247, 250,

251, 252, 254, 255, 256, 271, 272, 284, 285, 286, 287, 299, 306, 310, 311, 328, 341, 342, 347, 348, 349, 373, 382, 392, 397, 399. ENG 189, 289, 298, 332, and 389 may be substituted where applicable.

COMPREHENSIVE ENGLISH EDUCATION MAJOR

— 54 hours in English required, *exclusive* of ENG 101.

— Required courses: ENG 102, 103, 145, 222 or 223, 241, 243, 291 or 296, or 297, 375.

— 30 hours of electives selected from the following three areas:

Area 1 (12 hours) — English Literature: ENG 213, 214, 215, 216, 217, 218, 219, 222 or 223, 312, 313, 317, 320, 324, 325, 327, 328, 386, 387, 388.

Area 2 (12 hours) — American Literature, World Literature, and Genre: ENG 150, 231, 232, 233, 234, 235, 236, 250, 251, 252, 254, 255, 256, 284, 285, 286, 328, 332, 336, 382.

Area 3 (6 hours) — Language and Children's Literature: ENG 245, 247, 272, 290, 296, or 297, 310, 311, 341, 342, 347, 348, 349, 370, 372, 390, 392, 395; or Journalism: INF 165, 166, 268, 269.

Students must elect at least one 300-level course in addition to 375 and may take no more than three 300-level courses, except with consent of the department chairperson. ENG 189, 289, and 389 may be substituted where applicable.

MAJOR IN ENGLISH EDUCATION

— 36 hours in English required, *exclusive* of ENG 101.

— Required courses for certification and accreditation: 6 hours of composition selected from ENG 101, 145, 291, 297, 349, and also 3 hours in grammar, ENG 243; ENG 102, 103; one course in language selected from ENG 241, 245, 310, 311, 341, 342.

— Suggested program, but not required (student may depart from suggested program by filing a plan of study for approval of the chairperson of the department or designated representative):

9 hours of British Literature, with some historical spread selected from ENG 213, 214, 215, 216, 217, 218, 219, 222, 223, 312, 313, 317, 320, 324, 325, 327, 386, 387, 388.

6 hours of American Literature, including one course from each of the following areas:

To 1870 — ENG 231, 232.

After 1870 — ENG 233, 234, 235, 236, 336.

3 hours of World or Children's Literature from ENG 150, 170, 250, 251, 252, 254, 255, 256, 271, 272, 370, 372, 373, 375.

Electives from any of the courses listed above or from ENG 145, 247, 284, 285, 286, 290, 296, 297, 299, 306, 328, 347, 348, 349, 382, 390, 392, 395, 397, 399. ENG 189, 289, 298, 332, and 389 may substitute where applicable.

MINOR IN ENGLISH

— 18 hours in English required, *exclusive* of ENG 101 and courses in the teaching of English (290, 291, 296, 297, 370, 372, 375, 390, 395).

— Required courses: ENG 102, 103; at least 6 hours of 200-300 level courses, *exclusive* of the courses in teaching of English listed above.

MINOR IN ENGLISH EDUCATION

— 24 hours in English required, *exclusive* of ENG 101.

— Required Courses: ENG 102, 103; 3 hours in composition selected from ENG 145, 291, 297, 349; 3 hours in grammar, ENG 243; at least 6 additional hours of 200-300 level courses.

Students Planning Graduate Study in English: Students who plan graduate study in English may find it advisable to take at least one year of foreign language, preferably French or German. Such students may also find it advisable to take a sequence of courses leading to a concentration in literature of England or America, Children's Literature, or professional studies in English. An appropriate program may be planned in consultation with the chairperson of the Department of English.

English Courses

The courses offered by the Department of English fall into three categories; those for University Studies, those for major and minor fields, and those for specialized aspects in English. English 101 is required of all students for University Studies, and it is strongly recommended that students take 101 before taking further courses in English.

101 LANGUAGE AND COMPOSITION 3 US-A F.S
Does not count toward a first or second field in English.

Essentials of college composition: organization, paragraph and sentence structure, proficient use of grammar and mechanics.

102 LITERARY ANALYSIS I: PROSE FICTION 3 US-B F.S
Maj min only. Not for credit if had ENG 105.

To provide competence in critical reading, knowledge of formal characteristics of novels and short stories, including their development as genres.

103 LITERARY ANALYSIS II: POETRY AND DRAMA 3 US-B F.S
Maj min only. Not for credit if had ENG 104.

To provide competence in critical reading, knowledge of formal characteristics of various types of poetry and drama, including their development as genres.

104 INTRODUCTION TO LITERATURE — POETRY AND DRAMA 3 US-B F.S
Not for credit if had ENG 103.

Critical and analytical study of the chief literary forms of poetry and drama; written essays.

105 INTRODUCTION TO LITERATURE — PROSE FICTION 3 US-B F.S
Not for credit if had ENG 102.

Critical and analytical study of the chief literary forms of the short story and novel; written essays.

106 INTRODUCTION TO LITERATURE — LITERARY THEMES AND TOPICS 3 US-B F.S
Not for credit maj min. May be repeated once if topic and content are different.

A critical and analytical study of literary works based on a particular theme or topic; written essays.

110 MASTERPIECES OF ENGLISH LITERATURE 3 US-B F.S

A chronological study of the main movements in English literature. Readings of entire works representative of the movements.

130 MASTERPIECES OF AMERICAN LITERATURE 3 US-B F.S

A chronological study of the main movements in American literature. Readings of entire works representative of the movements.

145 ADVANCED EXPOSITION 3 US-A F.S

Extensive writing based on interests of students. One research paper.

150 ANCIENT LITERATURE 3 US-B F.S
Selected readings in ancient Greek, Roman, and Oriental literatures in translation.

160 WOMEN IN LITERATURE 3 US-B F.S

A study of the female experience in imaginative literature — short stories, novels, poetry, and drama — with emphasis on women writers of the 20th century.

170 LITERATURE FOR THE ELEMENTARY SCHOOL 3 F.S
Also offered as INF 170.

Prose and poetry for kindergarten through eighth grade; emphasis on classics, best of the 20th century works, folklore heritage, and mythology.

213 MEDIEVAL ENGLISH LITERATURE 3 US-B

English literature from the 8th to the 15th centuries; readings in Modern English.

214 LITERATURE OF THE RENAISSANCE 3 US-B F
English literature during the 15th and 16th centuries; the dramatic literature exclusive of Shakespeare, prose and poetic writings.

215 LITERATURE OF THE SEVENTEENTH CENTURY 3 US-B S
Prose and verse writers of the 17th century. Chief attention to the Cavalier and Metaphysical poets and major prose works.

216 LITERATURE OF THE EIGHTEENTH CENTURY 3 US-B F
English literature from 1660 to 1780, the Augustan Age. Chief attention to Dryden, Pope, Swift, and Johnson.

217 LITERATURE OF THE ROMANTIC PERIOD 3 US-B F.S
Writers of England, 1780 to 1830 — the Romantic reaction. Chief attention to Wordsworth, Coleridge, Byron, Shelly, Keats, and Scott.

218 LITERATURE OF THE VICTORIAN PERIOD 3 US-B S
Emphasis on the poetry of Tennyson, Browning, Arnold, and the Pre-Raphaelites, with some attention to the chief prose writers of the period.

219 CONTEMPORARY ENGLISH LITERATURE 3 US-B F.S
Major English writers of the 20th century with attention to contemporary trends in thought and expression.

222 SHAKESPEARE'S EARLIER WORKS 3 US-B F.S
Formerly SHAKESPEARE: COMEDIES AND HISTORIES.

Selected works through 1600 with emphasis on comedies and histories.

223 SHAKESPEARE'S LATER WORKS 3 US-B F.S
Formerly SHAKESPEARE: TRAGEDIES.

Selected plays after 1600 with emphasis on tragedies.

231 AMERICAN LITERATURE: 1607 TO 1830 3 US-B
Colonial American writers and Neo-Classicism in America

from the beginnings of American literature to Washington Irving.

232 AMERICAN LITERATURE:
1830 TO 1870 3 US-B F,S

The main figures and movements of 19th century American literature. Emphasis on Hawthorne, Melville, Poe, Emerson, and Whitman.

233 AMERICAN LITERATURE:
1870 TO 1920 3 US-B F,S

The rise of realism and naturalism in America. Emphasis on Crane, Norris, James, Howells, Dreiser, and the chief poetic movements.

234 AMERICAN LITERATURE:
1920 TO 1945 3 US-B F,S

Trends in American literature between the World Wars. Emphasis on Eliot, Hemingway, Faulkner, and their contemporaries.

235 AFRO-AMERICAN LITERATURE 3 US-B

A study of the contributions to American literature by representative Black authors, with emphasis on the 20th century.

236 AMERICAN LITERATURE:
1945 TO THE PRESENT 3 US-B F,S

Present-day trends in American literature.

241 GROWTH AND STRUCTURE OF THE ENGLISH LANGUAGE 3 US-A F,S

An introduction to the history of English designed to help students understand language change and the state of contemporary English.

243 TRADITIONAL AND NON-TRADITIONAL GRAMMARS 3 US-A F,S

Study of the various grammatical descriptions of English: traditional, structural, and transformational-generative systems.

245 GENERAL SEMANTICS 3 US-A F,S

The nature of meaning and the functions of language.

247 CREATIVE WRITING 3 US-A F,S

Opportunity for creative writing of various kinds, as narrative, drama and verse, determined largely by each student's individual interest.

250 LITERATURE OF THE BIBLE I 3 US-B F

Major ideas and literary forms of the Old Testament.

251 LITERATURE OF THE BIBLE II 3 US-B S

Major ideas and literary forms of the Apocrypha and the New Testament.

252 EUROPEAN LITERATURE TO 1700 3 US-B F

Chief movements and works of Continental European literature from the Middle Ages to the Renaissance. Readings in translation.

254 EUROPEAN LITERATURE:
1700 TO 1850 3 US-B

Main movements of Continental European literature from the Renaissance to modern times. Readings in translation.

255 MODERN WORLD LITERATURE I 3 US-B F

Foreign literature in translation from 1850-1940.

256 MODERN WORLD LITERATURE II 3 US-B S

Foreign literature in translation since 1940.

271 LITERATURE FOR LOWER GRADES 3 F,S

Also offered as INF 271. Does not repeat materials of INF 170 or ENG 170.

Wide reading in variety of books available for kindergarten and primary grades, criteria for book selection, development of literature programs.

272 LITERATURE FOR UPPER GRADES 3 F,S

Also offered as INF 272. Does not repeat materials of INF 170 or ENG 170.

Wide reading in variety of books available for grades four through eight, criteria for book selection, development of literature programs.

284 THE POEM 3 US-B

Study of poetics, poetic theory, explication techniques, and of various schools of poetic thought. In translation when necessary.

285 THE DRAMA 3 US-B S

Major plays representing significant developments in the theater with attention to leading theories of dramatic criticism.

286 THE NOVEL 3 US-B F

The novel in English with emphasis on the 19th and 20th centuries.

290 LANGUAGE ARTS FOR THE ELEMENTARY SCHOOL 3 F,S

Guidance in devising experiences in thinking, listening, speaking, writing; ways of improving vocabularies, usage, spelling, mechanics, introduction to linguistics.

296 LITERATURE IN THE SECONDARY SCHOOL 3 F,S

The teaching of literature for use in the junior and senior high school.

297 LANGUAGE AND COMPOSITION IN THE SECONDARY SCHOOL 3 S

The teaching of oral and written composition in the junior and senior high school.

298 SEMINAR 3

Intensive study of a genre, topic, group of authors, or single major writer in English or American Literature.

299 INDEPENDENT HONOR STUDY 1-6 F, S

Cons inst, dept chrpn and dir of Honors.

Intensive work in a special area of the student's major or minor. Each individual project is to culminate in a comprehensive written report and/or examination. Open only to resident students who have achieved superior academic records and who have demonstrated ability to profit from independent study. A maximum of six hours of credit in independent study may be applied toward graduation.

306 REGIONAL AND AREA STUDIES 1-9 US-E

May be given in cooperation with other departments.

Intensive study of particular lands, environments, cultures, literatures, and peoples.

307 MULTI-DISCIPLINARY SEMINAR 3

Formerly ENG 398.

Intensive study in subject matter which crosses disciplinary lines, to be offered by two or more departments.

310 HISTORY AND DEVELOPMENT OF THE ENGLISH LANGUAGE 3

Development of the English language from the Old English period to the present, with attention to operational struc-

tures of contemporary English.

311 INTRODUCTION TO OLD ENGLISH 3

The elements of Old English grammar, with selected readings in Old English literature.

312 BEOWULF AND OTHER OLD ENGLISH POEMS 3

ENG 311 or cons inst.

Beowulf and other Old English poetry in Old English with discussion of forms, types, and characteristics.

313 MIDDLE ENGLISH LANGUAGE AND LITERATURE 3

Introduction to Middle English language and literature (1100-1500) with selected readings in the five major dialects of Middle English, excluding Chaucer.

317 VICTORIAN PROSE 3

Major non-fiction prose writers of the period 1832-1901, such as Carlyle, Mill, Newman, Ruskin, Arnold, Huxley, and Pater.

320 CHAUCER 3

Literary and linguistic study of the major works of Chaucer; text in Middle English.

324 MILTON 3

Major poetry and prose of John Milton; special attention to *Paradise Lost*.

325 ENGLISH DRAMA BEFORE 1642 3

English drama, excluding Shakespeare, from its beginning to the closing of the theaters; such authors as Marlowe, Jonson, Webster.

327 RESTORATION AND EIGHTEENTH-CENTURY DRAMA 3

English drama from 1660 to 1800, including such playwrights as Dryden, Wycherley, Congreve, Goldsmith, and Sheridan.

328 MODERN BRITISH AND AMERICAN DRAMA 3

20th-century British and American drama and related criticism; such playwrights as Shaw, O'Neill, Williams, Albee, Pinter, and Beckett.

332 SELECTED FIGURES IN AMERICAN LITERATURE 3

May be repeated if content different.

Study of important literary figures, genres, or movements.

336 THE AMERICAN NOVEL 3

Historical survey of major American novelists, including such authors as Hawthorne, Melville, Clemens, Crane, Hemingway, Faulkner, and Barth.

341 INTRODUCTION TO DESCRIPTIVE LINGUISTICS 3

May be repeated if content different.

Aims and methods of linguistic science. Nature and functions of language: phonology, morphology, syntax, dialectology. Relationship of language to culture.

342 INTRODUCTION TO HISTORICAL LINGUISTICS 3

ENG 341 or cons inst.

Historical comparative linguistics concentrating on the Indo-European family. Causes and types of linguistic change.

347 ADVANCED CREATIVE WRITING 3

ENG 247 or cons inst.

Workshop format for individual projects, usually the writing of a series of poems or group of short stories.

348 PLAYWRITING 3

Also offered as THE 348.

Playwriting techniques of selected masters with practical application of techniques in writing original plays.

349 TECHNICAL WRITING 3

ENG 101 or cons inst. Also offered as IT 349.

Instruction and practice in the forms and techniques of technical writing, adapted wherever possible to the professional interests of the student.

365 MINORITY LITERATURE 3

S

20th century literature written by American ethnic minorities. Study of literary figures, genres, movements and thematic conceptions.

370 STUDIES IN THE HISTORY OF LITERATURE FOR YOUNG PEOPLE 3

ENG 170 or cons inst. May be repeated if content different.

Advanced critical, chronological examination of literature for children and adolescents from folklore origins to 1900.

372 STUDIES IN CONTEMPORARY LITERATURE FOR YOUNG PEOPLE 3

ENG 170 or cons inst. May be repeated if content different.

A problem-centered course, emphasizing trends and research related to recent literature for children and adolescents.

373 VERSE FOR CHILDREN 3

ENG 170 and either 271 or 272, or cons inst. Formerly ENG 273.

Verse for use in kindergarten through grade eight, including various categories, elements, and well-known poets in the field.

375 STUDIES IN LITERATURE FOR ADOLESCENTS 3

May be repeated if content different.

Advanced critical examination of literature for grades seven through twelve with emphasis on trends and research.

382 LITERARY CRITICISM 3

Historical survey of selected great texts in literary and critical theory from Plato to Northrop Frye.

386 THE EIGHTEENTH-CENTURY ENGLISH NOVEL 3

The English novel from its origins through the 18th century, including such writers as Richardson, Fielding, Smollett, and Sterne.

387 THE NINETEENTH-CENTURY ENGLISH NOVEL 3

The English novel between 1800 and 1900, treating such writers as Austen, Thackeray, Dickens, Eliot, and Hardy.

388 THE TWENTIETH-CENTURY ENGLISH NOVEL 3

The English novel since 1900, treating such writers as Bennett, Lawrence, Woolf, Joyce, and Greene.

390 RECENT RESEARCH IN THE TEACHING OF LANGUAGE ARTS 3

ENG 290 or equiv or cons inst.

Critical study of current practice and research in the teaching of the language arts in the elementary school.

392 MODERN THEORIES OF RHETORIC 3

Study of the principles of rhetoric to serve as basis for understanding contemporary rhetorical theories.

395 PROBLEMS IN THE TEACHING OF ENGLISH 3*Experience in teaching (student teaching acceptable) or ENG 296 or ENG 297.*

Examination of theory and practice in the teaching of language, literature, and composition at the secondary and community college levels.

397 RESEARCH SEMINAR 3

Introduction to bibliography, methods of research, critical evaluation of scholarship, and applied literary criticism.

Foreign Languages

Chairperson: Richard O. Whitcomb, 425 Severson Hall.
Faculty: Professors: Comfort, Kuhn, Laurenti, D. Parent, Parker, Rodriguez, Tarrant, Whitcomb. Associate Professors: Ferguson, Foreman, Fritzen, Fuehrer, Hutter, Perry, Petrossian. Assistant Professors: Balkema, Cradler, Kellams, Kennedy, Martinez, Pfabel, Roussey. Instructors: Gaigalas, Huffman.

French Programs

Degrees Offered: B.A., B.S. Further Information: Department of Foreign Languages. Separate liberal arts and teacher education programs.

MAJOR IN FRENCH

- 33 hours in French required.
- Required courses: French 111, 112, 115, 116, 221, 222, 231. French 203 does not count toward this major.

MAJOR IN FRENCH EDUCATION

- 37 hours in French required.
- Required courses: French 111, 112, 115, 116, 204, 231.

MINOR IN FRENCH

- 25 hours in French required.
- Required courses: French 111, 112, 115, 116, 231. French 203 does not count toward this minor.

MINOR IN FRENCH EDUCATION

- 25 hours in French required.
- Required courses: French 111, 112, 115, 116, 204, 231.

German Programs

Degree Offered: B.A. Further Information: Department of Foreign Languages. Separate liberal arts and teacher education programs.

MAJOR IN GERMAN

- 33 hours in German required.
- Required courses: German 111, 112, 115, 116, 213, 221, 222. German 217 recommended strongly.

MAJOR IN GERMAN EDUCATION

- 37 hours in German required.
- Required courses: German 111, 112, 115, 116, 204, 213. German 217 and 222 recommended strongly.

MINOR IN GERMAN

- 25 hours in German required.
- Required courses: German 111, 112, 115, 116, 213.

MINOR IN GERMAN EDUCATION

- 25 hours in German required.
- Required courses: German 111, 112, 115, 116, 204, 213.

Latin Programs

No major offered. Further Information: Department of Foreign Languages. Separate liberal arts and teacher education programs.

MINOR IN LATIN

- 25 hours in Latin required.
- Required courses: Latin 115, 116, 201, 202.

MINOR IN LATIN EDUCATION

- 25 hours in Latin required.
- Required courses: Latin 115, 116, 201, 202, 204.

Russian Programs

Degree Offered: B.A. Further Information: Department of Foreign Languages. Identical liberal arts and teacher education programs, except that FOR 204 is required in the teacher education program.

MAJOR IN RUSSIAN STUDIES

- 33 hours selected from among Russian courses offered in Foreign Languages and selected Geography, History, and/or Political Science courses.
- Required courses: Russian 111, 112, 115, 116 and electives to complete 33 hours selected from among other Russian courses and GEO 245; HIS 233, 234, 366; POS 242, 263, 354; including at least two courses from among GEO, HIS, and POS courses listed.

MINOR IN RUSSIAN

- 25 hours in Russian required.
- Required courses: Russian 111, 112, 115, 116, 231.

Spanish Programs

Degrees Offered: B.A., B.S. Further Information: Department of Foreign Languages. Separate liberal arts and teacher education programs.

MAJOR IN SPANISH

- 33 hours in Spanish required.
- Required courses: Spanish 111, 112, 115, 116, 211, 216, 221, 222 or 242, 231. Spanish 203 does not count toward this major.

MAJOR IN SPANISH EDUCATION

- 37 hours in Spanish required.
- Required courses: Spanish 111, 112, 115, 116, 204, 231.

MINOR IN SPANISH

- 25 hours in Spanish required.
- Required courses: Spanish 111, 112, 115, 116, 211, 231. Spanish 203 does not count toward this minor.

MINOR IN SPANISH EDUCATION

- 25 hours in Spanish required.
- Required courses: Spanish 111, 112, 115, 116, 204, 231.

Foreign Language Courses

Students who have had no previous instruction in foreign language enroll in the course numbered 111 (French, German, Latin, Russian, Spanish). Students who have had one, two, or three years of a language in high school may enroll without examination in 112, 115, or 116, respectively.

y. Students who have completed successfully four years of work in a foreign language in high school should consult with the chairperson of the Department of Foreign Languages to determine proper placement.

The Department of Foreign Languages reserves the right to examine transfer students as to their ability to carry courses numbered in the 300's.

A student, who is qualified and advised to enroll in any Foreign Language course above 111 in the regular sequence (112, 115, 116, or above) without previous experience at the college/university level, is eligible for *advanced placement* credit. This credit toward graduation for language proficiency previously acquired will be granted upon completion at Illinois State University of 8 hours of credit coursework in the same language (excluding independent study) with an average grade of C or better. Students beginning at the 112 level and fulfilling the grade requirements will be granted 4 hours of credit. Students beginning at the 115 level or above and fulfilling the grade requirements will be granted 8 hours of credit.

General Courses

204 FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL 1-3

F,S

Two 200-level FOR courses.

Concepts and methods. Preparation of audio-lingual exercises, including pattern drills, on tapes for language laboratory use. Lesson plan and testing. Operation and management of a foreign language laboratory. Sources and uses of teaching aids, such as filmstrips, films, charts, and maps. Lectures, discussions, individual projects, and observation of classes.

300 RESEARCH IN FOREIGN LANGUAGES 1-3

F,S

Cons dept chrpn.

Supervised work in a foreign literature, in comparative language studies, or in educational materials for foreign language laboratory. Assignments will depend on the preparation and interest of the student.

Classics Courses

101 GREEK AND LATIN FOR VOCABULARY BUILDING 3

US-A

F

Formerly GREEK AND LATIN IN EVERYDAY USE. Taught in English. Not for credit maj min.

The history of the Latin and Greek elements in English, study of the roots, prefixes, and suffixes derived from Latin and Greek to enable the student to increase his active and passive vocabulary and to enable him to determine the meanings of new words that he hears or reads. Some treatment of the subject of semantics as it applies to the Latin and Greek elements in English. A consideration of the technical vocabulary of the sciences according to the interests of the class.

105 CLASSICAL

MYTHOLOGY 3

US-B

F,S

Formerly CLASSICAL MYTHOLOGY AND ITS INFLUENCE. Taught in English. Not for credit maj min.

The major myths; their nature, origins, interpretations, influence, relevance, and use in the modern world. Designed to enable the student to understand and appreciate the use of classical mythology in literature, art, and music.

Greek Courses

111 and 112 CLASSICAL

GREEK

4 ea

US-A

The Greek alphabet, pronunciation, essentials of grammar, translation of reading material of graded difficulty, exercises in writing Classical Greek, consideration of the Greek element in English.

Latin Courses

111 and 112 FIRST-YEAR

LATIN

4 ea

US-A

Pronunciation; essentials of grammar; reading graded material; exercises in writing easy Latin; consideration of the Latin element in English.

115 INTERMEDIATE

LATIN

4

US-A

F

LAT 112, or two yrs HS LAT, or cons dept chrpn.

Review of Latin fundamentals. Practice in writing simple Latin. Reading beginning with graded Latin selections and progressing to selections from Cicero's orations.

116 VERGIL 4

US-A

LAT 115 or three yrs HS LAT.

Aeneid, Books I-VI: The purpose, sources, merits and fame of the Aeneid, and its references to other classic epics; poetical syntax, figures of speech prosody, and mythology in the Aeneid.

201 and 202 SURVEY OF LATIN

LITERATURE

4 ea

US-B

LAT 116 or three yrs HS LAT.

Introduction to the history and development of Latin literature. Translation of representative selections from the works of the most important authors of the Republic and Empire.

211 CICERO'S ESSAYS 3

US-B

Reading of selections from Cicero's philosophical essays. An appreciation of these essays as literary masterpieces, both in style and thought. Discussion of the treatment of the same themes by other writers, ancient and modern.

231 OVID, METAMORPHOSES 3

US-B S

Translation, scansion, and reading of the passages most helpful to the teacher of Latin.

French Courses

111 and 112 FIRST-YEAR

FRENCH

4 ea

US-A

F,S

Not rec if student had two yrs of HS FR.

Pronunciation; essentials of grammar; exercises in hearing, speaking and writing French; reading material of graded difficulty.

113 FRENCH CONVERSATIONAL

PRACTICE

2

US-A

F,S

FR 112 or cons dept chrpn. Not for credit for FR 200 level students.

Intermediate level conversational practice. Exercises to improve diction, pronunciation, intonation and comprehension.

114 FRENCH COMPOSITION

PRACTICE

2

US-A

F,S

FR 112 or cons dept chrpn. Not for credit for FR 200 level students.

Intermediate level composition practice, including translation and grammar exercises.

**115 and 116 SECOND-YEAR
FRENCH 4 ea US-A**

F,S

FR 112 or two yrs HS FR.

Class reading of short stories, plays, and essays. Grammar review, oral and written composition.

**203 FRENCH FOR THE ELEMENTARY
SCHOOL 3**

S

FR 116. Not for credit maj min.

Practical exercises in the preparation and the use of classroom materials. For Resource Persons in Elementary Education.

**211 MODERN FRENCH
NOVEL 3 US-B**

F,S

FR 116.

Reading and discussion of representative French novels.

**216 MODERN FRENCH
DRAMA 3 US-B**

F,S

FR 116.

Reading and discussion of the drama of the 19th and 20th centuries.

217 FRENCH CIVILIZATION 3

F,S

FR 116.

French people and institutions as background for the French teacher.

**221, 222, and 223 SURVEY OF FRENCH
LITERATURE 3 ea US-B**

F,S

FR 116.

French literature from the 17th century to the present.

**231 ADVANCED FRENCH COMPOSITION
AND CONVERSATION 2**

F,S

FR 116.

Reading of short excerpts from modern writers; written and oral composition; dictation and memorizing of short passages.

**301 FRENCH
ROMANTICISM 3**

Reading of poetry, novels, plays, criticism, stories, and history.

302 FRENCH CLASSICISM 3

Reading of plays by Corneille, Racine and Moliere, and selections from other 17th century writers.

309 FRENCH PHONETICS 2

F,S

A scientific approach to French pronunciation. Correct formation of French sounds, practical application of the theory of phonetics to teaching.

**316 FRENCH LITERATURE
OF THE SIXTEENTH
CENTURY 3**

S

Analysis of the Renaissance as it expressed itself in the leading writers of France in the 16th century.

318 MOLIÈRE 3

F

Major comedies of Moliere.

**322 FRENCH LITERATURE OF
THE MIDDLE AGES 3**

Formerly LE MOYEN AGE.

A study of medieval French literature in modern French translation.

332 FRENCH LYRIC POETRY 2 US-B

Reading of French lyrics from the 16th century to the present; study of the schools of poetry; explication de texte. Oral reading.

**385 SELECTED TOPICS IN
FRENCH LITERATURE 3**

F,S

May be repeated if content different.

Intensive study of a genre, group of authors or a single major writer in French literature. This study varies each semester.

German Courses

111 and 112 FIRST-YEAR

GERMAN 4 ea US-A

F,S

Not rec if student had two yrs HS GER. Not for credit if had GER 113 except cons dept chrpn.

Pronunciation, essentials of grammar, reading materials of graded difficulty, oral and written exercises.

**113 ELEMENTARY GERMAN
COMPOSITION AND
CONVERSATION 2 US-A**

F,S

GER 112 or cons dept chrpn. Conc reg with GER 115 and 116 acceptable.

Oral and written exercises and short discussions leading to a command of elementary, idiomatic German.

**115 and 116 SECOND-YEAR
GERMAN 4 ea US-A**

F,S

GER 112 or two yrs HS GER.

Class reading of short stories, plays and essays. Grammar review, oral and written composition.

118 SCIENTIFIC GERMAN 4

GER 115 or cons dept chrpn.

Analytical approach to basic translation skills. Development of a scientific vocabulary and interpretation of German scientific literature with aid of a dictionary.

211 GERMAN NOVELLE 3 US-B

F

GER 116 or cons dept chrpn.

Reading and discussion of representative German Novellen.

**213 INTERMEDIATE
GERMAN COMPOSITION
AND CONVERSATION 3**

F,S

Continued intensification of writing and speaking skills; vocabulary building and conversation, with emphasis on idiomatic expressions.

**214 GERMAN CONVERSATION
PRACTICE 2**

F,S

GER 113 and 116 or cons dept chrpn.

Improvement of active command of previously learned skills, including diction, pronunciation, comprehension capacity.

216 GERMAN DRAMA 3 US-B

GER 116 or cons dept chrpn.

Lectures, reading, and discussion of representative works of outstanding German, Austrian and Swiss dramatists.

**217 GERMAN CULTURE AND
CIVILIZATION 3**

S

GER 116 or cons dept chrpn.

An overview of German culture from the beginning to World War I, as derived from selected readings and class discussions.

218 GERMANY TODAY 3

F

GER 116 or cons dept chrpn.

A study of the German scene since World War I, as reflected in essays and articles of representative authors. Strongly recommended for teaching majors.

221 SURVEY OF GERMAN LITERATURE I 3 US-B*GER 116 or cons dept chrpn.*

Reading and discussion of representative works of the most important authors from the 8th century to circa 1770.

222 SURVEY OF GERMAN LITERATURE II 3 US-B*GER 116 or cons dept chrpn.*

Reading and discussion of representative works of the most important authors from the early 19th century to the present.

223 GERMAN PROSE OF THE TWENTIETH CENTURY 2 US-B*GER 116 or cons dept chrpn.*

Reading, discussion, and individual reports on novels and short stories, particularly those of Hesse, Musil, and Mann.

302 GOETHE 3*Two crses beyond GER 116.*

Reading and discussion of a number of major works, with emphasis on the drama.

303 SCHILLER 3*Two crses beyond GER 116.*

Reading and discussion of a number of major works, with emphasis on the drama.

309 GERMAN PHONETICS 2*Two crses in GER lit.*

Scientific approach to German pronunciation; correct formation of German sounds, practical application of theory of phonetics to teaching.

313 ADVANCED GERMAN COMPOSITION AND CONVERSATION 2*GER 213 or cons dept chrpn.*

Free discussion of topics of contemporary interest; oral and written themes based on the class discussions.

318 GOETHE'S FAUST 3*Two crses beyond GER 116.*

Critical study of Parts I and II of *Faust* as an expression of Goethe's philosophy. Lectures, readings, and reports.

332 GERMAN LYRIC POETRY 2*GER 116 or cons dept chrpn.*

Reading and interpretation of German lyric poetry from 800 A.D. to the present.

385 SELECTED TOPICS IN GERMAN LITERATURE 3*Two crses in GER lit. May be repeated if content different.*

Intensive study of a genre, group of authors, or a single major writer in German literature.

Italian Courses**111 and 112 FIRST-YEAR ITALIAN 4 ea US-A**

Pronunciation; essentials of grammar; exercises in comprehending, speaking, and reading material of graded difficulty.

Portuguese Courses**111 and 112 FIRST-YEAR PORTUGUESE 4 ea US-A**

Pronunciation; essentials of grammar; exercises in hearing, speaking, and writing simple Portuguese, reading of graded material.

Russian Courses**111 and 112 FIRST-YEAR RUSSIAN 4 ea US-A F,S**

Pronunciation and essentials of grammar. Emphasis placed on speaking and listening, with some reading and writing.

115 and 116 SECOND-YEAR RUSSIAN 4 ea US-A F,S*RUS 112 or two yrs HS RUS.*

A continuation of RUS 112 with more advanced reading, writing and speaking.

217 RUSSIAN CIVILIZATION 3*RUS 116.*

Reading of essays concerning Russian history, culture, and contemporary Soviet life.

221 and 222 READINGS IN RUSSIAN LITERATURE 3 ea US-B*RUS 116.*

Reading and discussion of the most important Russian authors.

231 RUSSIAN CONVERSATION AND COMPOSITION 2 F*RUS 116.*

Written and oral composition; conversation designed to build vocabulary and improve pronunciation.

285 SELECTED STUDIES IN RUSSIAN LITERATURE 3 US-B F,S*May be repeated if content different.*

Intensive study of a genre, group of authors or a single major writer in Russian literature. The field of study will vary each semester.

290 ADVANCED RUSSIAN SYNTAX 3*One 200 level RUS crse, Jr or Sr standing, cons inst.*

Advanced treatment of Russian grammar; grammatical exercises; free and directed composition in Russian.

Spanish Courses**111 and 112 FIRST-YEAR SPANISH 4 ea US-A F,S***Not rec if student had two yrs HS SPA.*

Fundamentals of grammar. Practice in speaking, understanding, reading and writing Spanish.

114 ELEMENTARY SPANISH COMPOSITION AND CONVERSATION 2 US-A F,S*Not recommended for adv students.*

Conversational practice with exercises in elementary composition.

115 SECOND-YEAR SPANISH 4 US-A F,S*SPA 111 and 112 or three yrs HS SPA. May be reg conc with SPA 116.*

Extensive reading and discussion of modern Hispanic short stories.

116 SECOND-YEAR SPANISH 4 US-A F,S*SPA 111 and 112 or three yrs HS SPA. May be reg conc with SPA 115.*

Review of Spanish grammar.

**203 SPANISH FOR THE
ELEMENTARY SCHOOL 3 S***SPA 116, cons dept chrpn. Not for credit maj min.*

Teaching techniques for the elementary school. Resource requirement.

**211 MODERN SPANISH
NOVEL 3 US-B F,S**

Reading and discussion of representative Spanish and Spanish American novels.

**216 MODERN SPANISH
DRAMA 3 US-B F,S**

Reading and class discussion of representative Hispanic dramatists of the 19th and 20th centuries.

**217 CIVILIZACION
ESPANOLA 2 US-B F,S**

Spanish customs and institutions in their historical perspective.

**218 CIVILIZACION
HISPANOAMERICANA 2 US-B F,S**

Cultural life and customs of Spanish-speaking countries in the Americas.

**221 and 222 SURVEY OF SPANISH
LITERATURE 3 ea US-B F,S**

Reading and discussion of representative Hispanic writers of the 16th and 17th centuries, and of the 18th and 19th centuries.

**231 ADVANCED SPANISH
COMPOSITION AND
CONVERSATION 2 F,S***SPA 116.*

Composition and conversation based on modern Spanish prose with special attention to idioms and the finer points of grammar.

**242 SURVEY OF SPANISH-AMERICAN
LITERATURE 3 US-B S**

Introduction to the works of Spanish-American authors with emphasis on the 19th and 20th centuries.

**304 LA CIVILIZACION
MEXICANA 2 F,S**

A study of the formation of the Mexican nation. A consideration of the development of their attitudes and traditions.

309 SPANISH PHONETICS 3 F

Learning, using and teaching correct Spanish pronunciation, stress and intonation.

310 SPANISH SYNTAX 3 S

A systematic and thorough study of the fundamental points of Spanish grammar and composition.

**320 METHODS OF TEACHING
HIGH SCHOOL SPANISH 2 F,S**

Methods of teaching Spanish in the secondary school. Special emphasis is given to audio-lingual techniques.

**331 and 332 SPANISH-AMERICAN
LITERATURE 3 ea F,S**

From the colonial period through realism, and from modernism to the present.

**335 MEXICAN
LITERATURE 2 F,S**

A survey of Mexican literature and its literary background from its beginnings to the present.

**372 SPANISH DRAMA OF THE
GOLDEN AGE 3**

Reading and discussion of selected plays from the great dramatists of Spain's Golden Age.

**385 SELECTED TOPICS IN
SPANISH LITERATURE 3 F,S***May be repeated if content different.**Intensive study of a genre, movement, author or work. This study varies each semester.*

Geography-Geology

Chairperson: John E. Trotter, 406 Schroeder Hall.

Faculty: Professors: Calef, Mattingly, Miller, Patterson, Schmidt, Searight, Shuman, Trotter. Associate Professor: Hart. Assistant Professors: Aspbury, Barnhardt, Johnson, Kirchner, Luman, Nelson, Sublett, Walters.

Geography Programs

Degree Offered: B.A., B.S. Further Information: Department of Geography-Geology. Identical liberal arts and teacher education programs.

MAJOR IN GEOGRAPHY

— 32 hours in Geography required. Student program must be planned in consultation with an adviser. Geology 175 and 380 only may count toward major.

— Required courses: GEO 100, 135, 300, 315, and the courses specified from the three groups below.

1. **Physical Geography:** at least two courses from among GEO 110, 175, 200, 202, 340, 380.
2. **Human Geography:** at least two courses from among GEO 150, 205, 208, 210, 320, 325, 330, 335, 336, 337, 338, 345.
3. **Regional Geography:** at least one course from among GEO 215, 220, 225, 230, 240, 245, 250, 255, 260, 306.

MINOR IN GEOGRAPHY

— 22 hours in Geography required. Geology 175 and 380 only may count toward minor.

— Required courses: GEO 100, 135, at least one course selected from among each of the three groups listed under the major, and at least one course from among GEO 300, 305, 308, 310, 315.

Geology Programs

Degrees Offered: B.A., B.S. Further Information: Department of Geography-Geology. Liberal arts program only; no teacher education program available.

MAJOR IN GEOLOGY

— 37 hours in Geology required.

— Required courses: GEO 175, 180, 280, 285, 290, 395 or an equivalent accredited summer field course.

— Recommended courses in BSC, CHE, PHY, and MAT should be selected according to the student's area of interest in consultation with an academic adviser.

MINOR IN GEOLOGY

— 22 hours in Geology required.

— Required courses: GEO 175, 180, 290.

Geography Courses

**100 INTRODUCTION TO EARTH
SCIENCE 3 US-C F,S**

Spatial distributions, associations, and processes of the natural environment: Landforms, climate, soils, vegetation.

110 WEATHER 2 US-C F,S

Weather elements, processes, and types. Significance of these in weather observation, analysis, charting, and forecasting.

- 135 WORLD GEOGRAPHY 3 US-D F,S**
Cultural regions and spatial distribution of peoples, languages, religions, economic activities and settlement patterns of the world.
- 145 MAPS AND MAP READING 3 F,S**
Fundamental map concepts and conventions. The major types of maps and how to read them.
- 150 ECONOMIC GEOGRAPHY 3 US-D F,S**
Spatial distribution of a variety of activities related to production, exchange, and consumption of goods and services.
- 200 CLIMATE 2 US-C F,S**
GEO 110.
Climatic elements and controls. Classification of climates, climatic types and world climatic regions.
- 202 GEOGRAPHY OF SOILS 3 US-C S**
The major soil groups; pedogenesis, characteristics, and classification. Distribution and importance of major soil groups in the world.
- 205 CONSERVATION AND MANAGEMENT OF NATURAL RESOURCES AND THE ENVIRONMENT 3 US-D F,S**
Policies, procedures, and problems in the management and use of our natural environment and life-supporting resources. Problem perception, decision-making processes, and political and cultural factors in the management of our resources.
- 208 POLITICAL GEOGRAPHY 3 US-D S**
Introduction to the field of political geography. Emphasis on spatial patterns of political activity.
- 210 HISTORICAL GEOGRAPHY 2 US-D F**
Introduction to the field of historical geography with emphasis on analysis and reconstruction of past geographies.
- 215 GEOGRAPHY OF THE UNITED STATES 3 US-D F,S**
Major regions of the United States in terms of contemporary physical, cultural, and natural resource patterns.
- 220 GEOGRAPHY OF ILLINOIS 2 US-D F,S**
Field trips included.
Physical environment and patterns of human occupancy including agriculture, industry, transportation, and utilization of mineral resources.
- 225 GEOGRAPHY OF CANADA 3 US-D F**
Natural regions, resources, economic activities, settlement patterns, interregional and international relations.
- 230 GEOGRAPHY OF LATIN AMERICA 3 US-D S**
Regional analysis of the major political units; emphasis on physical, cultural, and economic characteristics.
- 240 GEOGRAPHY OF EUROPE 3 US-D**
Europe based upon regions. Present importance and possible future of each in the light of geographic conditions.
- 245 GEOGRAPHY OF THE SOVIET UNION 3 US-D F**
Physical resource patterns and their significance to industrial, agricultural land use, general economic, and political development.

- 250 GEOGRAPHY OF AFRICA 3 US-D F**
Regional study of Africa. Patterns of society as related to the natural environment.
- 255 GEOGRAPHY OF ASIA 3 US-D**
Countries, regions, and peoples of Asia. Selected regions, specific localities, and special problems.
- 260 GEOGRAPHY OF AUSTRALIA AND THE PACIFIC 3 US-D F**
Patterns of the natural environment and man's historical, economic, and political development in Australia, New Zealand, Micronesia, Melanesia, and Polynesia.
- 265 OUR NATIONAL PARKS 3 F,S**
Field trips included.
National Parks of the United States in terms of physiography, geology, climate, flora, fauna, and scenic qualities.
- 300 CARTOGRAPHY AND GRAPHICS 3 F,S**
Graphic representation of statistical data, including compilation and preparation of various types of maps and graphs.
- 305 AERIAL PHOTOGRAPH INTERPRETATION 3 S**
Basic principles of photogrammetry and techniques and applications of aerial photograph interpretation.
- 306 REGIONAL AND AREA STUDIES 1-9 US-E**
Cons inst. Usually given cooperatively with other depts.
Intensive study of particular lands, environments, cultures, and peoples.
- 308 QUANTITATIVE METHODS IN GEOGRAPHY 3 F**
Use and interpretation of basic statistical techniques in geographical problems.
- 310 TECHNIQUES OF FIELD WORK 3 F**
Field trips required.
Techniques of mapping and interpretation of the phenomena of the natural and cultural landscapes; original study and mapping.
- 315 METHODS AND CONCEPTS IN AMERICAN GEOGRAPHY 2 F,S**
Selected professional publications, designed to acquaint the student with the development of basic concepts and methods in American geography.
- 320 RURAL LAND USE AND AGRICULTURAL GEOGRAPHY 3**
GEO 150 or cons inst.
Spatial aspects of agriculture: regionalization, distribution, and theories of location relating to crop and livestock production and other rural land uses.
- 325 WORLD POPULATION AND RESOURCES 3 S**
GEO 150, 205 or cons inst.
Population growth and resource distribution and their impacts on national policy, levels of living, food supply, and educational levels.
- 330 GEOGRAPHY OF TRANSPORTATION 3 S**
GEO 150 or cons inst.
Geographic analysis of systems of spatial interaction including influence of transportation on industrial location and regional development.

335 MANUFACTURING GEOGRAPHY 3 F
GEO 150 or cons inst. Formerly INDUSTRIAL GEOGRAPHY.

Location and structure of American manufacturing industries.

336 URBAN GEOGRAPHY 3 F
Internal morphology, external relationships, and other spatial aspects of cities.**337 HISTORICAL GEOGRAPHY OF THE UNITED STATES 3 S**

Geography of the exploration and initial settlement of the United States, including development of distinctive regional patterns.

338 CULTURAL GEOGRAPHY 3
GEO 135 or cons inst.

Cultural processes whereby man, the organizer of space, leaves an imprint on the earth's surface.

340 PROBLEMS IN CLIMATOLOGY 3
GEO 200 or cons inst.

Investigation of specific problems in climatology.

345 PROBLEMS IN CONSERVATION AND OUTDOOR RECREATION 3 S
GEO 205 or cons inst.

Investigation of specific problems in conservation and resource use including outdoor recreational resources.

Geology Courses

175 PHYSICAL GEOLOGY 4 US-C F,S
Lecture and laboratory.

Origin and types of earth materials, internal and external earth processes and development of landscapes.

180 HISTORICAL GEOLOGY 4 US-C F,S
GEO 175 or cons inst. Lecture and laboratory. Field trip required.

Origin and evolution of the earth as interpreted from rock sequences, fossils, and geologic maps; emphasis on geologic principles.

185 COMMON ROCKS AND MINERALS 2 US-C F,S
Not for credit maj or if had GEO 175. Lecture and laboratory.

Genesis, description, classification, and identification of common rocks and minerals.

195 INTRODUCTION TO OCEANOGRAPHY 3 US-C F,S
Also offered as BSC 195.

General principles of biology, chemistry, geology, and physics as applied to a study of the world's oceans.

275 LIFE OF THE GEOLOGIC PAST 2 US-C F,S
Not for credit maj.

Origin, classification and evolution of life from early forms to modern types.

278 GEOLOGIC TECHNIQUES 3
GEO 175, 180.

Methods, materials, and equipment used in analysis, interpretation, and mapping of earth materials, physical environments, and geologic structures.

280 MINERALOGY 4 F
GEO 175, CHE 140 or cons inst. Lecture and laboratory.

Crystallography, internal structure, chemistry, recognition and occurrence of minerals.

285 PETROLOGY 4 S
GEO 280 or cons inst. Lecture and laboratory. Field trip required.

Description, classification and origin of igneous, sedimentary, and metamorphic rocks.

290 STRUCTURAL GEOLOGY 4 F
GEO 180. Lecture, laboratory and field work.

Mechanics and processes of deformation of the earth's crust and the resulting structures.

295 SEDIMENTATION 3 F
GEO 180 or cons inst. Lecture and laboratory. Field trip required.

Origin, transportation, deposition and diagenesis of sedimentary materials.

296 STRATIGRAPHY 3 S
GEO 295. Lecture and laboratory. Field trip required.

Distribution, correlation and analysis of stratified rocks.

375 ECONOMIC GEOLOGY 3 S
GEO 175 or cons inst.

Earth materials of economic importance. Characteristics and uses of common metallic and nonmetallic minerals and rocks.

380 GEOMORPHOLOGY 3 S
GEO 175 or cons inst.

Origin, classification, description and interpretation of land forms.

382 GLACIAL AND QUATERNARY GEOLOGY 3 F
Formerly GEO 425.

Development of glaciers, glacial movements, deposits, and land forms as background for discussion of present landscapes.

385 INVERTEBRATE PALEONTOLOGY 4 S
GEO 180 or 275 and BSC 190 or cons inst. Lecture and laboratory. Field trip required.

Description, taxonomy and evolution of major-fossil invertebrate phyla; emphasis on groups with paleoecologic and stratigraphic significance.

390 OPTICAL MINERALOGY 3 F
GEO 280, 285. Lecture and laboratory.

Optical theory and techniques in the use of the petrographic microscope, optical identification of minerals using oil immersion and thin-section methods.

392 GENERAL PETROGRAPHY 3 S
GEO 390. Lecture and laboratory.

Petrographic study of mineralogy, textures, mineral parageneses and classification of igneous, sedimentary, and metamorphic rocks in thin-section.

395 FIELD GEOLOGY 6 Summer Only
GEO 280, 285, 290.

Application of geologic principles to field mapping and interpretation of the Central Rocky Mountains.

History

Chairperson: Gerlof D. Homan, 334 Schroeder Hall.

Faculty: Professors: Champagne, Grabill, Gray, Helgeson, Holsinger, Homan, Kohlmeyer, Plummer, Reitan, Sands, Schapsmeier, Simms. Associate Professors: Austensen, Cohen, Davis, Freed, Haddad, Holt, Rayfield, Sessions, Walker, Wray. Assistant Professors: Banks, Cunningham, Ekberg, Ganaway, Hoyt, D. MacDonald, Schmiechen, Wyman. Instructors: Harmon, S. MacDonald. Lecturer: Bridges. Faculty Assistant: Eichstaedt.

History Programs

Degrees Offered: B.A., B.S. Further Information Department of History. Identical liberal arts and teacher education programs except that HIS 390 required for teacher education.

MAJOR IN HISTORY

- 30 hours in History and an additional 18 hours from other specified fields required.
- Required courses: at least 9 hours in United States history and at least 9 hours in world history. A minimum of 9 hours and a maximum of 12 hours at the 100 level will be accepted toward the major, with at least 3 hours each in United States and in world history. Two HIS courses at the 300 level are required of all History majors.
- Additional 18 hours required selected from among ECO, GEO, ENG (literature), PHI, POS, PSY, and SOA courses, with not more than 6 hours in any one of these areas. *For history majors who are teacher education candidates the additional 18 hours must be selected from among Economics, Geography, Political Science, and Sociology courses with at least 8 hours each from any two of these areas.* HIS 390 is required of all History majors who are teacher education candidates.

MINOR IN HISTORY

- 24 hours in History required.
- Required courses: at least 9 hours in United States history and at least 9 hours in world history, with a minimum of 9 hours and a maximum of 12 hours at the 100 level accepted toward the minor.

Honors in History: The department offers honors work in History to highly qualified juniors and seniors who will pursue an individualized program of study. The honors program enables the superior student to reinforce guided private study on historical topics of the student's own choosing with seminar-style research. Students interested in participating in the department's honors program may secure further information by contacting the chairperson of the Department of History. The department also offers in-course honors work in all its courses for students enrolled in the University Honors program or in any departmental honors program. In-course honors work is offered at the discretion of the instructor.

History Courses

121 HISTORY OF WESTERN CIVILIZATION TO 1300 3 US-B F,S
Primitive man; the ancient cultures; the civilizations of Greece and Rome; the Middle Ages.

123 HISTORY OF MODERN EUROPE I: 1300-1815 3 US-B F,S
Survey of the development of modern European civilization, from the period of its formation through the French Revolution and Napoleonic Era.

124 HISTORY OF MODERN EUROPE II: 1815-PRESENT 3 US-B F,S
A survey of modern European developments from the Congress of Vienna to the present.

125 HISTORY OF ASIAN CIVILIZATIONS 3 US-B F,S
An introduction to the major traditions of India, Southeast Asia, China and Japan; emphasis on continuity and change in modern Asia.

126 HISTORY OF THE MIDDLE EAST AND AFRICA 3 US-B F,S
A political, cultural, social, and economic study, with an emphasis on ancient cultures and the emergence of nation-states.

135 HISTORY OF THE UNITED STATES TO 1865 3 US-D F,S
Not for credit if had HIS 137.
Political, economic, social, and cultural developments from the colonial period to the Civil War.

136 HISTORY OF THE UNITED STATES SINCE 1865 3 US-D F,S
Not for credit if had HIS 137.
Agrarian and industrial revolutions, development of American institutions, and America as a world power.

137 THE AMERICAN EXPERIENCE 3 US-D F,S
Not for credit if had HIS 135 or 136. Primarily for University Studies.

A one-semester course in American History emphasizing a theme of special interest. The theme may vary with each semester or instructor.

220 ANCIENT HISTORY: GREECE 3 US-B F
Political and cultural evolution of the Greek World from preclassical times to the Hellenistic Age.

221 ANCIENT HISTORY: ROME 3 US-B S
The Roman republic and empire with emphasis on the constitutional evolution of Rome.

222 THE MIDDLE AGES I: 395-1100 3 US-B F
Study of the disintegration of ancient civilization and the gradual emergence of three successor civilizations: Byzantium, the Moslem World, and Western Europe.

223 THE MIDDLE AGES II: 1100-1500 3 US-B S
An examination of the climax and decline of medieval civilization.

224 THE RENAISSANCE: EUROPE: 1300-1500 3 US-B F
Political, economic, social, intellectual, cultural transition to early modern Europe; spread of Renaissance from origins in Italy; exploration and discovery.

225 THE REFORMATION: EUROPE: 1500-1600 3 US-B S
Protestant and Catholic reformations in the setting of 16th century politics, economics, society; intellectual and cultural currents; European expansion.

226 THE OLD REGIME: EUROPE: 1600-1789 3 US-B S
History of Europe during the 17th and 18th centuries; emphasis upon politics, science, philosophy, culture and the arts.

228 EUROPE IN THE NINETEENTH CENTURY: 1815-1914 3 US-B F
Liberalism, nationalism, democracy, militarism, imperialism, and the forces that led to World War I.

229 EUROPE IN THE TWENTIETH CENTURY 3 US-B F,S
The origins of the World Wars, Marxism-Leninism, Nazi and Soviet totalitarianism, and the role of Europe in the Cold War.

**230 THE CONTEMPORARY
WORLD 3 US-B F**

The major economic, social, political, and cultural changes since 1945. The Cold War, the revolution in expectations and the emerging concern over depletion of resources and environmental imbalances.

**231 ENGLISH HISTORY I:
TO 1783 3 US-B F**

English history from the fifteenth century to 1783. Special attention is given to political, social, and cultural history.

**232 ENGLISH HISTORY II:
SINCE 1783 3 US-B S**

English history from 1783 to the present. Special attention is given to political, social, and cultural history.

**233 HISTORY OF RUSSIA I:
TO 1725 3 US-B F**

Russian history from earliest times to the 18th century, including political, social, economic, and intellectual developments.

**234 HISTORY OF RUSSIA II:
SINCE 1725 3 US-B S**

Russian political, social, economic, and intellectual developments; the Russian Revolution; Russia in the 20th century.

**235 FRENCH HISTORY I:
TO 1789 3 US-B F**

French history from the Middle Ages to the French Revolution with emphasis upon French culture, including social, intellectual and artistic movements.

**236 FRENCH HISTORY II:
1789-PRESENT 3 US-B S**

Survey of the major political, economic, and cultural developments in France from the Napoleonic era to the present.

**237 MODERN GERMANY:
1848-PRESENT 3 US-B F**

A survey of German social, political, diplomatic, and intellectual history in the 19th and 20th centuries.

**239 EUROPEAN ECONOMIC
HISTORY 3 US-B S**

Emphasis on institutions and economic activity over time, from land tenure to trade, in changing political and technological environments.

**241 COLONIAL LIFE AND
INSTITUTIONS 3 US-B F**

Transfer of European ideas, institutions, and customs to America, and their subsequent development on American soil.

**243 THE EARLY NATIONAL PERIOD,
1787-1815 3 US-B F,S**

Formerly *BUILDING THE NATION, 1787-1815.*

Emphasis upon the establishment of a national government; the principles and influence of early federalism and of Jeffersonian democracy.

**244 THE AGE OF JACKSON:
1815-1848 3 US-B S**

The awakening of American nationalism as typified by the economic, political, social and cultural changes of the Jacksonian period.

**246 CIVIL WAR AND RECONSTRUCTION:
1848-1877 3 US-B F**

Causes and process of secession; problems of the Lincoln and Davis administrations, conduct of the war, and the

problems of reconstruction.

**247 THE GILDED AGE IN AMERICA:
1877-1900 3 US-B F**

Industrialization and responses to industrialism in America; special attention given to business and political leaders, farmers, Afro-Americans, and writers.

**248 UNITED STATES IN THE
TWENTIETH CENTURY I 3 US-B F,S**

An examination of significant aspects of American history from the Populist era to the Great Depression of 1932.

**249 UNITED STATES IN THE
TWENTIETH CENTURY II 3 US-B F,S**

An examination of significant aspects of American history from the 1930's to contemporary times.

**250 HISTORY OF WOMEN IN
AMERICA 3 US-B F,S**

The role of women in the economic, social, political, and cultural history of America from the colonial period to the present.

**251 HISTORY OF AMERICAN
DIPLOMACY I:
TO 1898 3 US-B F**

The history of the foreign relations of the United States from the revolution to 1898.

**252 HISTORY OF AMERICAN
DIPLOMACY II:
SINCE 1898 3 US-B S**

The history of the foreign relations of the United States since 1898.

**253 AMERICAN CONSTITUTIONAL
HISTORY 3 US-B F**

The history of American constitutional and legal developments from the colonial period to the present.

**255 HISTORY OF THE AMERICAN
FRONTIER 3 US-B F,S**

Westward movement and the influence of the frontier on American life and institutions.

**256 AMERICAN BUSINESS
HISTORY 3 US-B F**

Industrialization of America; the problems of agriculture, monopoly, and labor; the role of government in regulating and guiding economic activity.

**257 AFRO-AMERICAN
HISTORY I 3 US-B F**

The history of Black Americans from Colonial times to the Civil war.

**258 AFRO-AMERICAN
HISTORY II 3 US-B S**

The history of Black Americans from the Reconstruction period to the present.

259 HISTORY OF ILLINOIS 3 US-B S

A survey of the history of Illinois from the time of the French explorers to the present.

**260 HISTORY OF CANADA
SINCE 1763 3 US-B S**

Modern Canada since 1763, with emphasis on political, social, and economic developments.

**261 HISTORY OF LATIN
AMERICA I:
TO 1810 3 US-B F**

Survey of Latin American History from the discovery to the disruption of the Spanish American empire in 1808-10.

- 262 HISTORY OF LATIN AMERICA II:**
SINCE 1810 3 US-B S
 Survey of the 19th and 20th centuries; common characteristics as well as unique aspects of each country.
- 271 HISTORY OF THE MIDDLE EAST I:**
TO 1800 3 US-B F
 Political, social, economic survey of the Middle East from Muhammad to the 19th century, emphasizing origins and achievements of the Islamic age.
- 272 HISTORY OF THE MIDDLE EAST II:**
SINCE 1800 3 US-B S
 Political, social, economic survey of the Middle East from the 19th century to the present, emphasizing the rise of the modern nation-states.
- 273 HISTORY OF EAST ASIA 3 US-B F,S**
 Peoples and problems of the Orient with reference to their internal development and the part they play in world politics.
- 296 HISTORIOGRAPHY AND HISTORICAL METHOD 3 US-B F**
 Explores the character and discipline of history through the study of representative historians.
- 298 HONORS THESIS 3 US-B F,S**
Honors students or cons inst.
 Directed by a faculty member competent in the thesis field. Topic shall be approved before registration by the History Department.
- 306 REGIONAL AND AREA STUDIES 1-9 US-E**
Cons inst. Usually given cooperatively with other depts.
 Intensive study of particular lands, environments, cultures, and peoples.
- 310 SEVENTEENTH CENTURY AMERICA 3 US-B**
 Establishment and development of the American Colonies from Jamestown to the end of the 17th century. Special emphasis is given to Puritan New England.
- 311 AGE OF THE AMERICAN REVOLUTION 3 US-B**
 The emergence of the United States as an independent nation from 1763 to the Constitutional Convention in 1787.
- 317 AMERICAN CULTURAL EXPANSION AND DIPLOMACY 3 US-B**
 Worldwide expansion of American diplomatic, economic, cultural and religious influence in the 19th and 20th centuries.
- 320 LINCOLN: THE MAN AND HIS TIMES 3 US-B**
 Attention directed especially toward the work of Lincoln in Illinois, his leadership during the Civil War, and his relationships with people and events of his time.
- 321 GREAT FIGURES OF AMERICAN HISTORY 3 US-B**
 Personalities selected from American history with emphasis on the contributions and lasting influence of significant individuals.
- 322 AMERICAN URBAN HISTORY 3 US-B**
 Survey of the history of the American city from 1820 to the present.
- 323 AMERICAN CULTURAL AND INTELLECTUAL HISTORY I 3 US-B**
 American progress in the fine arts, philosophy, literature and science from Puritan times to 1860.
- 324 AMERICAN CULTURAL AND INTELLECTUAL HISTORY II 3 US-B**
 The impact of naturalism, industrialization, secularization, and urbanization upon American culture since 1860.
- 325 PROBLEMS IN TWENTIETH CENTURY UNITED STATES CONSTITUTIONAL HISTORY 3 US-B**
 An examination of major problems in American constitutional history since the Progressive Era; civil rights, freedom of speech and religion, federal-state relations.
- 326 CASES IN BUSINESS HISTORY 3 US-B**
 Study of mergers, business ethics, innovations, relations with labor and government, marketing, and financing, based on the historical experience of individual companies and business leaders.
- 327 AMERICAN LABOR HISTORY 3 US-B**
 The Industrial Revolution's impact upon workers, with emphasis on the responses through unions and politics, and on the role of government.
- 328 AMERICAN AGRICULTURAL HISTORY 3 US-B**
Formerly HIS 422 HISTORY OF AMERICAN AGRICULTURE.
 Focus on farming from colonial times to the present, including changing technology, land use, and economic, political, and social environment.
- 341 EUROPEAN INTELLECTUAL HISTORY TO 1600 3 US-B**
 The study of the ideas of the ancient world, Middle Ages, Renaissance, Reformation, examined in a social, political and economic context.
- 342 EUROPEAN INTELLECTUAL HISTORY SINCE 1600 3 US-B**
 A study of the ideas of the scientific revolution, enlightenment, 19th century and 20th century, examined in a social, political, and economic context.
- 343 MODERN EUROPEAN DIPLOMATIC HISTORY I: 1789-1890 3 US-B**
 The diplomatic history of Europe from the French Revolution to the fall of Bismarck.
- 344 MODERN EUROPEAN DIPLOMATIC HISTORY II: 1890 TO PRESENT 3 US-B**
 The diplomatic history of Europe from the fall of Bismarck in 1890 to the present.
- 345 FRENCH REVOLUTION AND NAPOLEON: 1789-1815 3 US-B**
Formerly FRENCH REVOLUTION AND NAPOLEONIC ERA: 1789-1815.
 Society, culture and government under the monarchy; de-

struction of the old order; rise and fall of Napoleonic France.

351 ANCIENT NEAR EAST 3 US-B

Study of the civilizations of Mesopotamia and Egypt from the neolithic period to 500 B.C.

352 THE HELLENISTIC WORLD 3 US-B

A comprehensive study of the world bequeathed by Alexander the Great from his death in 323 B.C. to the founding of the Roman Empire.

354 MEDIEVAL RELIGIOUS HISTORY 3 US-B

A history of Christianity from Constantine to the Reformation.

356 THE ENLIGHTENMENT 3 US-B F,S

Intellectual and social history of the western world during the eighteenth century.

360 TUDOR-STUART

ENGLAND: 1485-1689 3 US-B

General survey of English history from the beginning of the Tudor dynasty to the Revolution of 1688-89.

361 EIGHTEENTH-CENTURY BRITAIN:

1689-1815 3 US-B

Britain from the Revolution of 1688-89 through the early Industrial Revolution and Napoleonic wars.

362 MODERN BRITAIN: 1815

TO THE PRESENT 3 US-B

A general survey of British history in the 19th and 20th centuries.

365 NAZI GERMANY:

1933-45 3 US-B

Reading, discussion, and research in the major books and articles in the field.

366 SOVIET RUSSIA: 1917 TO

THE PRESENT 3 US-B

An evaluation of the origins and rise of Bolshevik power, concentrating on economic, cultural and social developments leading to great power status.

371 MODERN LATIN

AMERICA 3 US-B

The history of the Latin American countries in the last 100 years with emphasis on the 20th century.

373 HISTORY OF MODERN

CHINA 3 US-B

Concentrates on the Western and Chinese collision since the 1800's and the responses of traditional, national, and contemporary China to modernization.

375 HISTORY OF MODERN

JAPAN 3 US-B

Concentrates on Japan's modernization, goals of Meiji leaders, contradictory tendencies of pre-war Japan, and contemporary Japan.

390 SOCIAL STUDIES TEACHING METHODOLOGY 3

Designed for prospective history/social science teachers.

Includes examination of social studies project materials and ways of utilizing instructional models.

Information Sciences

Chairperson: John F. Cragan, 116A Stevenson Hall.

Faculty: Professors: Brake, Rives, Smith, Streeter, Watkins, White, Wiman. Associate Professors: Boaz, Cragan, R.

Holdridge, T. Jackson, Parret, Tchong, Tuttle, Wright. Assistant Professors: Harper, Hazleton, Hustuft, H. Jackson, Johnson, Kapoor, Konsky, Machula, Murdock, Paxton, Semlak, Shelly, Wilford, Williams, Wisely. Instructors: Conover, Dudczak, Gaye, Graham, Hutton, Olson, Sherman, Stamm, Stroyan, Szmulewicz, Utterback. Lecturers: Punke, Streckfuss. TV10 News Director: Weber.

Library Science-Instructional Media Programs

Degrees Offered: B.A., B.S. in Library Science with separate liberal arts and teacher education programs. No major is available in Instructional Media, which is a teacher education minor program. Further Information: Department of Information Sciences.

MAJOR IN LIBRARY SCIENCE

- 34 hours in Library Science and related fields required.
- Required courses: INF 101, 115, 120, 305, 306 or 307 or 308, 310, 312. The remaining courses may be chosen from within or outside the INF Library Science offerings, but in either case must be approved by the student's academic adviser.

MAJOR IN LIBRARY SCIENCE EDUCATION

- 34 hours in Library Science required.
- Required courses: INF 101, 115, 120, 240, 301, 305, 306, 307, 310, 312, 365. It is strongly recommended that INF 170 or 242 or 271 be considered as electives.

MINOR IN LIBRARY SCIENCE

- 19 hours in Library Science required.
- Required courses: INF 101, 115, 305, 306 or 307 or 308, 310, 312. INF 120 is recommended for students preparing for graduate work in Library Science.

MINOR IN LIBRARY SCIENCE EDUCATION

- 19 hours in Library Science required.
- Required courses: INF 115, 240, 305, 306 or 307, 310, 312.

MINOR IN INSTRUCTIONAL MEDIA

- 24 hours required.
- Required courses: INF 240, 241, 365, 366; 12 hours selected from among ART 101, 103, 104, 109, 226, INF 160, 162, 163, 310, 337, 362; IT 190, 210, 250, 251, 253. These courses cannot be used to satisfy the requirements of both the student's major and a minor in Instructional Media.

Mass Communication Programs

Degrees Offered: B.A., B.S. Further Information: Department of Information Sciences. Liberal arts program; no teacher education program available in Mass Communication (see Speech Communication for teacher education programs).

MAJOR IN MASS COMMUNICATION

- 36 hours required.
- Required courses (21 hours): INF 160, 260, 360, 361. Either INF 162, 163, and 264 (Mass Communication) or INF 165, 166, and 265 (Journalism).
- Electives (15 hours) for emphasis in Mass Communication or Journalism selected from INF 110, 161, 162, 163, 165, 166, 167, 263, 264, 265, 266, 267, 268, 269, 270, 287, 298, 362, 364, 368, 380, 385.

MINOR IN MASS COMMUNICATION

- 18 hours required.
- Required Course: INF 160.
- 15 hours of electives selected in consultation with an

academic adviser from among INF 110, 161, 162, 163, 165, 166, 167, 260, 263, 264, 265, 266, 267, 268, 269, 270, 287, 298, 360, 361, 362, 364, 368, 380, 385.

MINOR IN JOURNALISM EDUCATION

- 24 hours required. Typing ability is a prerequisite to this minor.
- Required courses: INF 160, 165, 166, 265, 266, 269, 385.
- Electives: INF 268 or IT 250.

MINOR IN PUBLIC RELATIONS

- 24 hours required.
- Required courses: INF 165, 268, 389 (Seminar in Public Relations).
- 15 hours of INF electives including at least one course from each of the following areas. (* means highly recommended):
 - (1) Graphics and Production: INF *240, *269, 365, 366, 368.
 - (2) Electronic Media: INF *162, 163, 362, 364, 367.
 - (3) Photography: INF 241, *266.
 - (4) Oral Presentations: INF 202, *227.
 - (5) Others: INF *160, *166, *167, *380 (with approval), 385, or an additional course from area 1 or 2.

Speech Communication Programs

Degrees Offered: B.A., B.S. Further Information: Department of Information Sciences. Separate liberal arts and teacher education programs.

MAJOR IN SPEECH COMMUNICATION

- 30 hours required.
- Required courses: INF 110, 297.
- 24 hours of electives selected from among the following groups of courses: minimum of 3 hours selected from among Interpersonal and Group Variables courses (INF 123, 175, 210, 223, 225, 227, 228, 323, 329, 370); minimum of three hours from among Rhetorical Variables courses (INF 125, 201, 202, 226, 302, 303, 304, 321, 324, 328, 371); minimum concentration of six additional hours from one of the above groupings of courses. Other electives available from Communication Methods and Research courses include INF 297, 298, 380. Electives available from Educational Variables courses include INF 199, 242, 280, 281, 330, 381.

MAJOR IN SPEECH COMMUNICATION EDUCATION

- 40 hours required.
- Required courses (28 hours): INF 110, 123, 125, 199, 202, 223, 281, 297, 324, 381.
- Elective courses (12 hours) chosen from two of the following groups:
 - Group A (Small Group/Interpersonal), 6 hours from INF 225, 323, 329, 370.
 - Group B (Social Communication), 6 hours from INF 175, 201, 303, 304, 371.
 - Group C (Rhetorical Criticism), 6 hours from INF 226, 302, 321, 328.
 - Group D (Education), 6 hours from INF 242, 280, 298, 330, 380.
 - Group E, 6 hours from INF 160, 360; THE 141, 341 (not for credit THE maj min); PAS 311.

MINOR IN SPEECH COMMUNICATION

- 18 hours required.
- Required course: INF 110.
- 15 hours of electives selected from among INF 125, 201, 223, 227, 298, 303, 304, 321, 323, 324, 370.

MINOR IN SPEECH COMMUNICATION EDUCATION

- 25 hours required.
- Required courses (19 hours): INF 110, 125, 199, 223, 281, 297, 324.
- Electives (6 hours) selected from among INF 123, 160, 201, 202, 210, 225, 226, 298, 302, 303, 304, 321, 323, 328, 329, 330, 360, 370; THE 141, 341; PAS 311.

Information Sciences Courses

101 THE LIBRARY IN SOCIETY 3 F,S
Survey of librarianship and areas of service. Significance and responsibilities of contemporary libraries. Professional organizations, standards, library legislation.

110 FUNDAMENTALS OF SPEECH 3 US-A F,S
Formerly SP 110.
Theory and practice to develop acceptable speech proficiency in various speaking activities demanded of citizens in a free society.

115 BASIC REFERENCE SOURCES 3 US-E F,S
Basic reference sources for libraries with collection of printed and non-printed material. Criteria for evaluating reference books and practical experience in using them.

120 HUMAN RECORDS AND LIBRARIES 3 US-A F,S
Human communication from earliest records to invention of printing and advent of mass media: libraries and their growth in relation to these developments and to society.

123 INTERPERSONAL COMMUNICATION 3 US-A F,S
Formerly SP 123.
An introduction to two-person interaction in a variety of contexts.

125 ARGUMENTATION 3 US-A F,S
Formerly SP 125.
Theory and practice of advocacy.

140 INTRODUCTION TO THE COMPUTER WORLD 3 US-E F,S
Not for credit if had MAT 168, ACC 160, 260 or INF 340.

A nontechnical course designed to develop effective computer users and acquaint the students with the impact of computers on the person and society. No previous computer experience or mathematics requirements necessary.

160 INTRODUCTION TO MASS COMMUNICATION 3 US-A F,S
Formerly SP 160: INTRODUCTION TO THE PUBLIC ARTS.

Mass Media development and function in modern society: technological basis, economic and political foundations, social implications.

161 ANNOUNCING PRACTICUM 1 F,S
INF 160 and cons inst. May be repeated. Max 4 hrs.
Supervised experience in an announcing assignment at local facilities or off-campus stations. The student must obtain the assignment and arrange with the instructor for weekly critique sessions.

162 RADIO PRODUCTION 3 F,S
INF 160. Materials charge.
Skills in utilizing equipment and procedures necessary to produce programs for radio. Script writing and directing included.

- 163 TELEVISION PRODUCTION** 3 F,S
INF 160, 162. 2 hrs lecture, 2 hrs laboratory.
 Development of skills necessary in producing a television program. Function of television equipment and facilities. Evaluation of current production techniques. Producing and directing included.
- 165 REPORTING I** 3 F,S
INF 160 and typing ability. Formerly JRN 165.
 Intensive training in the fundamentals of newsgathering and news writing.
- 166 COPY EDITING** 3 F,S
INF 160, 165. Formerly INF 265.
 Advanced training in rewriting and editing stories, head lines, writing, page layouts, and work on a campus publication.
- 167 BROADCAST NEWS I** 3 US-A F,S
INF 160, 165.
 Provide an understanding of the role of the broadcast journalist and develop some of the basic skills of the profession.
- 170 LITERATURE FOR THE ELEMENTARY SCHOOL** 3 F,S
Also offered as ENG 170.
 Prose and poetry for kindergarten through eighth grade; emphasis on classics, best of twentieth-century works, folklore heritage, and mythology.
- 175 BLACK REVOLUTIONARY COMMUNICATION** 3 F
Formerly SP 175.
- 199 PRACTICUM IN SPEECH COMMUNICATION** 1 F,S
May be repeated. Max 4 hrs. Formerly SP 199.
 Training and participation in speech activities.
- 201 COMMUNICATION AND SOCIAL ISSUES I** 3 US-A F
INF 110 or cons inst. Formerly SP 301 and SP 201 (76-77 Catalog).
 Criticism of communicative discourse concerning reform movements, religious controversy, socialism, and other topics.
- 202 PERSUASIVE PUBLIC SPEAKING** 3 S
Formerly SP 202.
 Provides the student an opportunity to develop skills in persuasive speaking in a variety of situations. Focuses on message content and organization appropriate for different situations.
- 203 POPULAR CULTURE** 3 S
INF 110 or cons inst.
 Survey of selected topics, research techniques, and media used for persuasive ends within the popular culture.
- 210 PRINCIPLES OF PARLIAMENTARY PROCEDURE** 3 US-E S
Formerly SP 210.
 Formal instruction in main, subsidiary, privileged, and incidental motions. Basic tenets of parliamentary law including relationship of principles of parliamentary procedure to bylaws and governance documents are covered. Actual practice provided in the conduct of business meetings. Functions of major officers of the assembly are discussed and demonstrated.
- 223 SMALL GROUP PROCESSES** 3 US-D F,S
Formerly SP 223.
 Theory and practice in reflective group discussion methods.
- 225 NONVERBAL COMMUNICATION** 3
INF 110 or cons inst. Formerly SP 325 and SP 225 (76-77 Catalog).
 Consideration of gesture, space, time, touch, objects, environment, voice, and eye behavior, and their relationship to communication and culture.
- 226 CLASSICAL RHETORIC** 3
Formerly SP 326 and SP 226 (76-77 Catalog).
 Analysis of classical rhetoricians and rhetorics, from the early Greek sophists to Saint Augustine, with special attention to impact on modern theory construction.
- 227 BUSINESS AND PROFESSIONAL SPEAKING** 3 F,S
 Learning experiences in critical analysis of communication events, group problem solving, interviewing, technical speaking, and persuasive speaking.
- 228 INTRODUCTION TO INTERVIEW** 3 F,S
 Learning experiences in the selection, organization, oral presentation of ideas through the interview situation. The course stresses the informational context of communication when interviewing.
- 240 UTILIZATION OF AUDIOVISUAL MATERIALS** 3 US-E F,S
Lecture and laboratory. Materials charge.
 Surveys the theory, materials, and methodology of instructional technology. Laboratory experiences include equipment operation, evaluation of materials, and basic graphic production techniques.
- 241 BASIC PHOTOGRAPHY** 3 US-E F,S
Materials charge. Student must provide own 35 mm adjustable camera, meter, and flash. Lecture and laboratory. Not for credit if had INF 266.
 Camera manipulation, lighting, composition, and darkroom procedures.
- 242 EXPERIENCING BOOKS THROUGH SPEECH** 3 F,S
INF 110. Formerly SP 242.
 Book-inspired activities for pupils in the elementary school designed to develop appreciation of literature through creative dramatics, story telling, choral reading, discussion, reporting, and reading aloud.
- 260 MASS COMMUNICATION: CULTURAL CRITICISM AND PROBLEMS** 3 F,S
INF 160.
 The mass media as a social system. Their impact on the cultural and economic life of the nation. The need for continuing decisions regarding public policy. This course results from the splitting of a former course, 360, Mass Communication in Society, into two courses.
- 263 ADVANCED TELEVISION PRODUCTION** 3 F
INF 160, 163, or cons inst. 1 hr lecture and 4 hrs laboratory.
 Creating visual appeal through the television medium. Aesthetics in preparing television programs. Advanced producing/directing techniques in commercial broadcasting and television as an art form.

- 264 BROADCAST PROGRAMMING** 3 S
INF 160.
 The format and scheduling of programs as practiced by station and network management and viewed from the perspective of the advertiser, the manager, and the habits and desires of the consumer.
- 265 REPORTING II** 3-F,S
INF 160, 165. Formerly INF 166.
 Advanced training in newsgathering and newswriting with practical application.
- 266 PHOTO JOURNALISM** 3 F
INF 160, 165. Not for credit if had INF 241. Materials charge.
 Development of skills and techniques in the production of still photographs for printed publication and television.
- 267 BROADCAST NEWS II** 3 F,S
INF 160, 165, 167 or cons inst.
 Refinement of skills in broadcast news through laboratory work on daily radio and television newscasts.
- 268 COMMUNITY RELATIONS** 3 F
INF 165. Formerly THE SMALL NEWSPAPER AND COMMUNITY RELATIONS.
 Introduction to public relations functions and training in production of news releases, news letters and other publications for employees and communities.
- 269 SPECIALIZED PUBLICATIONS** 3-S
INF 165. Formerly ANNUAL AND PERIODICAL.
 Training in editing, management, production and finance of magazine, small newspapers, and annual reports. Instruction applicable to advisement of school publications.
- 270 DOCUMENTARY IN FILM AND BROADCASTING** 3 US-A S
Also offered as THE 270.
 Historical, philosophical, and theoretical consideration of documentary approach in films, television, and radio.
- 271 LITERATURE FOR LOWER GRADES** 3 F,S
Also offered as ENG 271. Does not repeat materials of INF 170.
 Wide reading in variety of books available for kindergarten and primary grades, criteria for book selection, development of literature programs.
- 272 LITERATURE FOR UPPER GRADES** 3 F,S
Also offered as ENG 272. Does not repeat materials of INF 170.
 Wide reading in variety of books available for grades four through eight, criteria for book selection, development of literature programs.
- 280 TEACHING OF SPEECH IN THE ELEMENTARY SCHOOL** 3 S
INF 110 or conc reg. Formerly SP 280.
 Theory and practice in the language arts program designed to help teachers utilize the speech arts in the classroom.
- 281 PRINCIPLES OF SPEECH EDUCATION** 3 F
Formerly SP 281.
 Methods and materials for teaching secondary speech communication. Planning and applying strategies, methods of measurement, classroom criticism of performance, selection and compilation of materials.

- 297 COMMUNICATION RESEARCH METHODS** 3 F
Also offered formerly as SP 297.
 Methods of scholarly research and critical evaluation of research.
- 298 INDEPENDENT RESEARCH IN COMMUNICATION** 3 S
Project approval by chrpn and inst prior to reg. Also offered formerly as SP 298.
- 301 ADVANCED REFERENCE SOURCES** 3 F,S
 The selection, use, and evaluation of print and non-print reference materials in selected subject field.
- 302 COMMUNICATION CRITICISM** 3 S
INF 110 or cons inst. Formerly SP 327 and SP 302 (76-77 Catalog).
 The course develops critical skills for describing, interpreting and evaluation communication from different theoretical perspectives.
- 303 CONTROVERSY AND CONTEMPORARY SOCIETY** 3
INF 110 or cons inst. Formerly SP 303.
 Contemporary communication on current significant, controversial issues.
- 304 FREEDOM OF SPEECH AND PRESS** 3 F
INF 110 or cons inst. Formerly SP 304.
 A study of First Amendment rights. Emphasis on Supreme Court decisions relating to political dissent, obscenity, provocation and demonstration, and press freedom.
- 305 BUILDING AND MAINTAINING LIBRARY COLLECTIONS** 3 F,S
 A survey of general selection aids, principles of selection, criteria for evaluation. Development of a materials selection policy, intellectual freedom and censorship.
- 306 LIBRARY MATERIALS FOR CHILDREN** 3 F,S
 Selection, evaluation and use of media in various subject areas. Use of materials in meeting individual interests, needs, and abilities of children.
- 307 MEDIA FOR YOUNG ADULTS** 3 F,S
 Selection, evaluation, and use of media for young adults in public and secondary school libraries. Materials are related to development of young people and to the school curriculum.
- 308 LIBRARY MATERIALS FOR ADULTS** 3 S
 Evaluation, selection, and use of media for adults. A study and analysis of interests and information needs.
- 310 ORGANIZATION OF LIBRARY MATERIALS** 4 F,S
Supervised laboratory work.
 Principles of cataloging and classification and their application in organizing media collections; Dewey Decimal Classification System and the Anglo-American cataloging code.
- 312 ADMINISTRATION OF THE LIBRARY MATERIALS CENTER** 3 F,S
 Principles and procedures in developing, directing, and evaluating library media services.

- 319 COMPUTER GRAPHICS 3 F,S**
Also offered as IT 319. Materials Charge.
 Combination of graphic techniques and computer programming as means of industrial communication applied to solution and interpretation of technological problems.
- 321 MESSAGE COMPOSITION 3 F**
INF 110 or cons inst. Formerly SP 321.
 The application of communication theory and research to the composition of informative and persuasive messages. Emphasis: organizational and language factors affecting mediated and non-mediated communication.
- 323 THEORY AND RESEARCH IN SMALL GROUP COMMUNICATION 3 F,S**
INF 110, 297 or cons inst. Formerly SP 323.
 Theoretical and experimental literature dealing with small group communication processes.
- 324 THEORY AND RESEARCH IN PERSUASION 3 S**
INF 110, 297 or cons inst. Formerly SP 324.
 A survey of contemporary theoretical and empirical literature dealing with the question of how an individual's attitudes, beliefs, and social behaviors are affected by communication.
- 326 LIBRARY SERVICES FOR SPECIAL GROUPS 3 S**
 Trends in the development of services, primarily by public libraries in the United States and in Illinois, for groups with unique needs.
- 327 SPECIAL LIBRARIES 3 F**
Supervised field trips.
 Survey of the services and functions of the major types of special libraries.
- 328 CONTEMPORARY RHETORICAL THEORY 3 S**
Formerly SP 328.
 Recent rhetorical theories and theorists are discussed and evaluated.
- 329 ORGANIZATIONAL COMMUNICATION 3 F,S**
INF 110 or cons inst. Formerly SP 329.
 An examination of theoretical and experimental literature dealing with communication in an organizational setting.
- 330 DIRECTING THE FORENSIC PROGRAM 3 S**
INF 110 or cons inst. Formerly SP 330.
 Theoretical and procedural aspects of organizing and maintaining a debate and individual speaking events program.
- 337 PROGRAMMED LEARNING 3 F**
 Construction and evaluation of programmed instruction; critical analysis of learning theory as it relates to this form of instruction. Methods of using programmed sequences for instruction.
- 340 COMPUTER APPLICATIONS IN EDUCATION 3 S**
Cons inst. Formerly LSM 450.
 Examination and discussion of the ways computers may be used in education. Administration, instruction, research, storage of information, accounting and simulation.
- 345 INTRODUCTION TO LIBRARY TECHNOLOGY 3 S**
 Application of mechanized, automated and computerized equipment to achieve economy, efficiency and speed in library operations. Analysis and design of library systems.

350 EVALUATION AND COLLECTION OF MAP RESOURCES, ATLASES AND AERIAL PHOTOGRAPHS 3
Formerly LSM 330.

Selection, acquisition, conservation, storage and circulation of map materials, Criteria for evaluating maps and atlases.

360 MASS COMMUNICATION: THEORY AND EFFECTS 3 F,S
INF 110, 160.

A critical examination of channel and receiver variables and their effects on the act of moving information through a given medium. Students participate in at least one research project of their design.

361 REGULATION OF THE COMMUNICATION INDUSTRY 3 F
INF 160. Formerly LAW AND REGULATION OF MASS COMMUNICATION. Lecture and laboratory.

The legal background of mass media, specific laws affecting media operations, and industry efforts at self regulation.

362 INSTRUCTIONAL TELEVISION 3 F,S
Lecture and laboratory.

Television as a means of instruction in terms of research, technique, utilization and evaluation.

363 PRIVACY AND INFORMATION PROCESSING 3 F

An examination of concepts about individual privacy as related to the processing of information in a technological society. The study of institutional procedures with regard to the dissemination of sensitive information.

364 BROADCAST AND MANAGEMENT 3 S
INF 160, 264, 361.

The role and functions of broadcast media managers in society.

365 FUNDAMENTALS OF GRAPHIC PRODUCTION 3 F,S
INF 240 or cons inst. Lecture and laboratory. Materials charge.

Fundamental skills and techniques for mounting, lettering, coloring, illustrating and reproducing graphic materials.

366 GRAPHIC DESIGN AND PRODUCTION 3 S
INF 241 and 365 or cons inst. Lecture and laboratory. Materials charge.

Design and practice in the application of skills and knowledge to specific production problems. Student must integrate skills, knowledge of materials, design, and communication theory.

367 AUDIO PRODUCTION 3 F
Lecture and laboratory. Materials charge.

Selection, evaluation, production, operation and maintenance of audio devices and materials.

368 MOTION PICTURE PRODUCTION 3 S
Lecture and laboratory. Materials charge.

Theory and practice in planning and producing motion pictures. Considers treatments, storyboard, script writing, shooting, editing, titling and technical problems of production. Student provides film and processing.

370 PSYCHOLOGY OF LANGUAGE 3 S
INF 110, 297 or cons inst. Formerly SP 370.

Theories and experimental research relating to the development and functions of language.

371 POLITICAL COMMUNICATION 3-4
 6 hrs INF, and 6 hrs POS or cons inst. Formerly SP 371.

Basic theory and research relating to political campaign communication. Special attention is paid to the persuasive process of political campaigning focusing upon the role of the media; the candidate, image creation and other selected topics on political campaign communication.

380 DIRECTED PROJECTS 1-3 F,S
Cons inst.

Arranged on-campus practical experience under the guidance of department academic supervisors. 6 hours of 398 and/or 380 credit are applicable to the major; 18 hours of 398 and/or 380 credit are applicable to graduation.

381 PROBLEMS IN THE TEACHING OF COMMUNICATION 3 S
 INF 110 or cons inst. Formerly SP 381.

Identification of common and unique problems in teaching communication concepts and skills. Approaches to resolving classroom problems.

385 EDITORIAL AND FEATURE WRITING 3 F
Cons inst.

Advanced training in writing feature articles and editorials for newspapers and magazines.

386 TECHNICAL COMPUTER PROGRAMMING 3
Also offered as IT 386. Laboratory arranged. Materials charge.

Digital computer systems, programming digital computers and their use in solving problems related to applied sciences and technologies.

398 PROFESSIONAL PRACTICE 1-12 F,S
Cons inst.

Arranged off-campus practical experience under the guidance of professionally qualified academic and agency supervisors. 6 hours of any combination of 398 and 380 credit are applicable to the major.

Mathematics

Chairperson: Albert D. Otto, 313 Stevenson Hall.

Faculty: Professors: Egan, Horner, O'Daffer, Otto, Retzer, Ritt, Vanden Eynden. Associate Professors: Berk, L. Brown, Clemens, Crumley, Dossey, Edge, Friedberg, Ha, Hathway, Insel, Morris, Powers, Speiser. Assistant Professors: Banks, Carroll, Cook, Devaney, Eckert, Fisher, Gilmore, Hershberger, Jacobs, McVoy, J. Parr, P. Parr, D. Payne, Shilgalis, Spence, Thornton, Trojanowski, Tucker, Wallgren, Weatherwax, Weaver. Instructors: Blondin, Bowers, Briggs, R. Friedberg, Grant, Hannenann, Kacmar, Max, Moulic, Owles, Phillips, Priestler, Sherling, Wilmot. Faculty Assistant: Briggs. Lecturer: Christensen.

Mathematics Programs

Degrees Offered: B.A., B.S. Further Information Department of Mathematics. Identical liberal arts and teacher education programs, except that MAT 323 and its prerequisites are required in teacher education program.

The undergraduate degree programs in mathematics are designed to be sufficiently flexible to meet the needs of students interested in employment opportunities in: business management, industry, government, insurance, engi-

neering; research involving physics and chemistry; secondary teaching; computer applications; and the needs of those interested in continued study and research in mathematics. These degree programs are based upon the following groups of courses:

1. Basic sequence: 114, 115, 116, 117, 175.
2. Geometry and Foundations: 210, 211, 306, 312, 313, 375.
3. Algebra and Number Theory: 310, 315, 316, 317.
4. Analysis: 335, 336, 340, 347, 348, 349.
5. Statistics: 350, 351.
6. Computer Science: 284, 366, 370, 372.
7. Mathematics Education: 323, 362.

Students are encouraged to choose courses in consultation with their adviser which are consistent with their career interests. It is desirable that all students take at least one course in each of groups 2, 3, and 4. As a general guide to program selection, students with primary interest in teaching should emphasize groups 2 and 3; students with primary interest in application in business and industry should emphasize groups 5 and 6; and students with primary interest in application to the physical, natural and social sciences, should emphasize groups 3, 4 and 5. Students are urged to consult with their advisers in planning their programs.

MAJOR IN MATHEMATICS

- 36 hours in Mathematics required.
- Required courses: Group 1 basic sequence of five courses (MAT 114, 115, 116, 117, 175); at least four courses chosen from groups 2 through 7 above; at least 18 of the 36 hours must be at the 200 level or above. See also notes below.

COMPREHENSIVE MATHEMATICS MAJOR

- 52 hours in Mathematics required.
- Required courses: Group 1 basic sequence of five courses (MAT 114, 115, 116, 117, 175); MAT 317; at least six courses chosen from groups 2 through 7 above. As many as 10 hours chosen from courses outside MAT which require calculus as a prerequisite may be substituted for elective hours in MAT. See also notes below.

MINOR IN MATHEMATICS

- 24 hours in Mathematics required.
- Required courses: MAT 114, 115, 116, 175; at least 3 courses chosen from groups 2 through 7 above.

Notes on Mathematics Programs: (a) Students who score high on the Mathematics Placement Test may, with the permission of the department chairperson, begin their MAT courses with 116 or a higher level course. Credit will be given as equivalent to courses listed in this catalog. The department will determine the amount of credit given. (b) The following courses may not be used to satisfy requirements for a comprehensive major, major, or minor: MAT 103, 104, 105, 106, 107, 108, 110, 120, 121, 151, 152, 201, 202, 204, 205, 250, 301, 302. (c) Teacher education students must complete 211, 315, and 323 as prerequisites to student teaching, and must take 211 and 315 before taking 323.

A concentration in Quantitative Economics is available to students under the Comprehensive Arts and Sciences major. Interested students may contact the Department Chairperson in either Mathematics or Economics. See Economics for courses recommended in the program.

Mathematics Courses

103 FOUNDATION TOPICS IN MATHEMATICS 4 US-C S
Not for credit maj min.

Logic, axiomatics, sets, and numbers from common sense understandings. Precise language used but only meaningfully. Growth of a mathematical theory.

104 ELEMENTARY MATHEMATICAL STATISTICS 3 US-C S
3 sem. HS Algebra; Not for credit maj min.

Data acquisition; data reduction; role of mathematics in designing and analyzing experiments, especially polls; strategy, decision making under uncertainty.

105 APPLICATIONS OF ELEMENTARY MATHEMATICS 3 US-C F,S
1 yr. HS Algebra; Not for credit maj min or if had MAT 120.

Problems in physical, biological and social sciences, business, politics, games and other fields solved by algebra, geometry, linear programming, probability, etc.

106 FUNDAMENTALS OF MATHEMATICS 4 US-C F,S
Not for credit maj min.

Whole numbers, finite systems, sets, geometries, functions, analytic geometry, probability, sequences, logic.

107 INTERMEDIATE ALGEBRA 3 F,S
1 yr HS algebra and 1 yr HS Geometry. Not for credit maj min or if had MAT 109. 3 hr lecture and testing-tutorial sections required.

Intermediate course between one year of high school algebra and college algebra.

108 TRIGONOMETRY 2 F,S
3 sem HS Algebra and 1 yr HS Geometry. Not for credit if had 4 yrs HS MAT. Not for credit maj min or if had MAT 109.
109 MATHEMATICS FOR TECHNOLOGISTS 5 F,S
1 yr HS Algebra and 1 yr HS Geometry. Not for credit maj min or if had MAT 107. Hand calculators req.

Intermediate algebra and basic trigonometry with application in the technology fields.

110 MODERN COLLEGE ALGEBRA WITH TRIGONOMETRY 4 F,S
MAT 107 and 108, or 109 or equiv. Not for credit maj min.
114 ANALYTIC GEOMETRY FOR CALCULUS STUDENTS 1 F,S
MAT 110 or placement examination. Conc reg req MAT 115. Not for credit if had MAT 112 or 135.
115 CALCULUS I 4 US-C F,S
Placement exam. Conc reg req in MAT 114.

Differentiation of algebraic functions with associated applications. Curve sketching. Introduction to integration with applications.

116 CALCULUS II 4 US-C F,S
MAT 115.

Calculus of the logarithmic, exponential, and trigonometric functions. Techniques of integration, polar coordinates, conic sections, L'Hospital's rule, improper integrals, partial derivatives, infinite series.

117 CALCULUS III 3 F,S
MAT 116.

Parametric equations in RS2 with applications. Vectors curves and surfaces in R. Partial derivatives, gradients, directional derivatives, and tangent planes. Multiple integration. Taylor's theorem of several variables.

120 FINITE MATHEMATICS FOR BUSINESS AND SOCIAL SCIENCES 4 US-C F,S
MAT 107, 109 or cons inst. Not for credit maj min or if had MAT 105.

Finite mathematics with a review of selected topics from algebra.

121 INTRODUCTION TO CALCULUS FOR BUSINESS AND SOCIAL SCIENCES 4 US-C F,S
MAT 120. Not for credit maj min.

Intuitive differential and integral calculus, elementary matrices and vector spaces. Applications in linear programming and statistics.

151 STRUCTURE OF NUMBER SYSTEMS I 3 US-C F,S
1 yr HS Algebra and Placement Exam or cons inst. Not for credit maj min. Resource materials charge.

Properties of natural and rational numbers applied to four basic operations. Set theory applied to elementary mathematics.

152 STRUCTURE OF NUMBER SYSTEMS II 3 F,S
MAT 151 or 4 yrs HS MAT and cons adviser. Not for credit maj min.

Continuation of MAT 151. Concepts and structure of real numbers. Number theory, probability, statistics, geometry, and topology.

164 FORTRAN PROGRAMMING 3 F,S
An introduction to programming using the FORTRAN language including built-in functions, subprograms, and sequential and direct access file processing.
168 INTRODUCTION TO COMPUTERS AND PROGRAMMING 3 US-A F,S
Two yrs HS Algebra or MAT 107.

Emphasis on structured problem solving and the development of algorithms for information processing. The PL/1 language is used.

169 INFORMATION PROCESSING USING PL/1 3 F,S
MAT 168.

Programming techniques using major components of PL/1 including data representation, block structure, flow of control, storage classes, consecutive file organization, subroutines, and user defined functions.

175 LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS 4 F,S
MAT 117 or conc reg req.

Vector geometry, vector spaces, linear dependence, linear transformation, matrices, determinants, systems of linear equations, applications to the physical and social sciences.

201 MATHEMATICS FOR THE ELEMENTARY SCHOOL 2 F,S
MAT 151. Not for credit maj min or if had C&I 252. No credit if in Elementary Education Core program. Resource materials charge.

Background for meaningful teaching of number concepts, basic facts, fundamental processes, problem solving. Current innovations for elementary curriculum.

202 MATHEMATICS FOR THE JUNIOR HIGH SCHOOL 2 S
MAT 151. Not for credit maj min. Resource materials charge.

Structure of rational numbers and integers, real numbers, geometry and measurement solution sets for open sentences, ratio and proportion.

203 MATHEMATICS FOR EARLY CHILDHOOD 3 F,S
MAT 151. Not for credit MAT maj min or if had C&I 262. Resource center materials charge.

Study of appropriate mathematical experiences for young children including prenumber work, number and numeration, measurement, geometry, whole number operations, and problem solving.

204 GEOMETRY FOR ELEMENTARY TEACHERS 3 F,S
MAT 151 or 1 yr HS Algebra and 1 yr HS Geometry with cons inst. Not for credit maj min. Resource materials charge.

Geometry relevant to grades K-8. Logic, incidence, separation, congruence, parallelism, similarity, coordinate systems, measurement, and constructions.

205 MODERN ALGEBRA FOR ELEMENTARY TEACHERS 3 F,S
MAT 151 or cons inst. Not for credit maj min. Resource materials charge.

Algebraic concepts and structures relevant to grades K-8. Structure of familiar number systems compared to and contrasted with other mathematical systems.

210 SYMBOLIC LOGIC 3 US-A S
Also offered as PHI 210. Formerly MAT 365; MATHEMATICAL LOGIC.

Introduction to proof theory. Formal deductive systems, especially propositional logic and predicate logic. Properties of deductive systems, such as consistency and completeness.

211 EUCLIDEAN AND NON-EUCLIDEAN GEOMETRY 4 F,S
MAT 115.

Inductive and deductive study of Euclidean geometry; includes transformations, tessellations, polyhedra, classical theorems, introduction to non-Euclidean geometry.

220 MATRIX ALGEBRA FOR BUSINESS AND SOCIAL SCIENCES 3 S
MAT 120. Not for credit maj min.

Introduction to matrix algebra with applications to business and social sciences.

250 STATISTICS 3
MAT 110 or 120. Not for credit maj min.

Survey of statistical concepts and methods used in wide range of disciplines to meet need of students in areas other than mathematics.

265 JOB CONTROL LANGUAGE 1 F,S
A two-semester sequence in a programming language. Not for credit if had MAT 384.

JCL for IBM 360/370 operating system. Course utilizes video tape lectures and discussion sessions.

272 COBOL AS A SECOND LANGUAGE 4 F
An A or B in MAT 169 or equiv. Not for credit if had ACC 266 or 366.

Study of the COBOL language for students with previous experience in PL/1. Emphasizes structured problem solving and programming.

274 PL/1 AS A SECOND LANGUAGE 4 F,S
An A or B in ACC 266 or MAT 164 or MAT 283 or equiv. Not for credit if had MAT 168 or 169.

Study of the PL/1 language for students with previous programming experience. Emphasizes structured problem solving and programming.

283 ASSEMBLER LANGUAGE PROGRAMMING 3 F,S
Knowledge of compiler-level programming. Formerly MAT 368: PRINCIPLES OF DIGITAL COMPUTERS.

Assembler language programming, macro language, and debugging compiler level programs via dumps.

284 DATA STRUCTURES 3 F,S
MAT 283 or an A or B in PL/1. Formerly MAT 369.

Data representation and organization, structuring of data, lists, stacks, trees, queues, sorting, merging, and file organization maintenance.

288 ADVANCED ASSEMBLER LANGUAGE PROGRAMMING 3 S

Programming techniques using major components of BAL including sequential access methods, subroutine linkage, interrupt processing, dynamic storage allocation.

301 MATHEMATICAL TOPICS FOR ELEMENTARY TEACHERS 3
MAT 151 or cons inst. Not for credit maj min. Resource materials charge.

Significant problems, viewpoints and trends in teaching of arithmetic. Research related to organization, content and techniques in this field.

302 MATHEMATICAL TOPICS FOR JUNIOR HIGH TEACHERS 2 S
MAT 201 or 202 or tchg exper. Not for credit maj min. Resource materials charge.

Problems, viewpoints and trends in teaching junior high school mathematics. Implication of logic and foundations of mathematics for teaching in this field.

303 DIAGNOSIS AND REMEDIATION OF ELEMENTARY MATH LEARNING PROBLEMS 3 F,S
MAT 151 and 201 or cons inst. Resource materials charge. Not for credit maj min.

Analysis of Diagnostic and Remediation Procedures utilizing concrete materials for children experiencing difficulties in elementary school mathematics.

306 SET THEORY 3 S
MAT 175.

Elementary logic, set algebra, relations and functions, axioms for set theory, equivalence, ordinals and cardinals.

308 MATRIX THEORY 2 F
MAT 175 or 220 and FORTRAN or PL/1.

Computational theory of matrices, matrix operations, inversion, solution to linear systems, eigenvalues and eigenvectors.

310 NUMBER THEORY 3 F,S
MAT 116 or cons inst.

Divisibility, primes, unique factorization, numerical functions, congruences, Diophantine equations, other topics.

312 HIGHER GEOMETRY I 3 F,S
MAT 175.

Investigation of affine and projective geometry from an algebraic standpoint; metric structures.

313 HIGHER GEOMETRY II 3 F,S
MAT 175.

Synthetic and analytic projective geometry, projective conics.

315 INTRODUCTION TO ABSTRACT ALGEBRA I 3 F,S
MAT 175.

Introduction to rings, including integers, fields, polynomials, homomorphisms, ideals, quotient rings, factorization, irreducibility.

316 INTRODUCTION TO ABSTRACT ALGEBRA II 3 S
MAT 315.

Introduction to groups, including permutation, symmetry and matrix groups, homomorphisms, normality, quotient groups, applications.

317 LINEAR ALGEBRA 4 F,S
MAT 175.

Vector spaces, linear transformations and matrices, inner products, eigenvalues and eigenvectors, Jordan canonical form. Applications to geometry, the physical and social sciences.

320 HISTORY OF MATHEMATICS TO 1600 2 F
MAT 116.

Emphasis on Greek geometry, and growth of algebra and algebraic notation from early Mesopotamia through Renaissance.

321 HISTORY OF MATHEMATICS 1600 TO PRESENT 2 F
MAT 175.

Development of modern mathematics (analysis, algebra, geometry) and the people in the forefront, beginning with Descartes. Emphasis on 19th century.

323 MATHEMATICS FOR THE SECONDARY SCHOOL 3 F,S
MAT 211 and 315 or conc reg. Resource materials charge.

Problems in selection, placement and teaching of secondary mathematics topics. Language and symbolism. Analysis of recent trends and practices.

325 FINITE MATHEMATICAL STRUCTURES 2 S
MAT 175 or 220.

Linear programming, game theory, network analysis, and related topics. Applications.

335 ADVANCED CALCULUS I 3 F
MAT 117 and 175 or 231.

Calculus of functions of several variables; Taylor's series of several variables, maxima and minima, Lagrange multipliers, multiple integration, Green's and Stokes' theorems.

336 ADVANCED CALCULUS II 3 S
MAT 335.

Content will vary. Topics may include introduction to Fourier series or differential geometry.

340 DIFFERENTIAL EQUATIONS I 3 F,S
MAT 117 or 231 or cons inst.

First order differential equations, linear differential equations, series solutions, systems of linear differential equations, applications (MAT 341 requires MAT 175).

341 DIFFERENTIAL EQUATIONS II 3 S
MAT 175 and 340.

Numerical solutions, Laplace transform, theory of first order equations, theory of linear differential equations, Sturm theory, Sturm-Liouville theory, Fourier series, introduction to partial differential equations with applications to the heat and wave equations.

347 INTRODUCTION TO REAL ANALYSIS I 4 F
MAT 231 or 117 and 175.

The real number system, topology of metric spaces, sequences, continuous functions, uniform convergence, differentiation, Taylor's Theorem, Riemann integration, the fundamental theorem of calculus, infinite series, power series, the implicit function theorem.

348 INTRODUCTION TO REAL ANALYSIS II 3 S
MAT 347.

Differentiation, Taylor's theorem, Riemann-Stieltjes integration, uniform convergence, Stone-Weierstrauss theorem, power series expansions, Fourier series.

349 COMPLEX ANALYSIS I 3 F
MAT 117 and 175 or 231.

Analytic function theory, complex plane, differentiability and analyticity, Cauchy's theorem. Taylor series and Laurent series.

350 MATHEMATICAL STATISTICS I 3 F,S
MAT 117 or cons inst.

Sample spaces, random variables, frequency functions, linear functions of random variables, nature of statistical functions, moment generating function, applications.

351 MATHEMATICAL STATISTICS II 3 F,S
MAT 350.

Correlation and regression equations, development of Chi-square, Student's t and F distributions, likelihood ratio tests, analysis of variance and non-parametric methods.

362 COMPUTER-EXTENDED MATHEMATICS FOR SECONDARY SCHOOLS 3 S
Calculus and C in MAT 168 or knowledge of programming.

Techniques of illustrating, deriving, and discovering mathematical concepts of the secondary curriculum by digital computer and calculators.

363 INTRODUCTION TO SYSTEMS DEVELOPMENT 3 F,S
A two-semester sequence in a programming language.

Development of computerized information systems emphasizing structured design and the project leader's role in organization and control of the development process.

364 SOFTWARE DESIGN 3 F,S
MAT 384.

Design methodologies and implementation strategies in information system software development. Emphasizes psychological aspect of development, accurate reflection of the problem, correctness, reliability, maintainability.

366 BOOLEAN ALGEBRA AND LOGICAL DESIGN 3 F
MAT 116 or 121.

Switching circuits, Boolean algebra as model for propositional calculus, logical design of digital computers, logical programming.

368 TOPICS IN SYSTEMS DESIGN 3 S
MAT 363, 364, 384.

Advanced topics in systems analysis, design, and development.

370 NUMERICAL ANALYSIS 3 F
MAT 116 and 308.

Interpolation and approximation, error analysis, integration, techniques for solving differential equations, root finding, matrix manipulation.

372 INTRODUCTION TO FINITE AUTOMATA AND FORMAL LANGUAGES 3 S
MAT 315 or cons inst.

Finite deterministic automata including sequential and 2-way multitape automata. Formal languages and grammars, general systems theory.

375 INTRODUCTION TO TOPOLOGY 3
MAT 117 and 175 or 231.

Topology of metric spaces, introduction to general topological spaces, and other topics.

383 PRINCIPLES OF OPERATING SYSTEMS 3 S
MAT 283, 284.

Functional criteria for operating system design. Job management, task management, data management, resource allocation and dump and trace facilities.

384 EXTERNAL DATA STRUCTURES 3 F,S
MAT 284 or a two-semester sequence in a programming language or cons inst.

External file design, processing direct and indexed files, IBM utilities and sort/merge, basic concepts of IBM/370 operating systems, and extensive study of JCL.

390 INDEPENDENT STUDY 1-3 F,S

391 DIRECTED PROJECT IN APPLIED COMPUTER SCIENCE 1-6 F,S
By application only. MAT 363 and 364 or equiv and cons of ACS Director. May be repeated max 8 hrs.

Team design and/or implementation of a modest sized computer based system in a live environment under faculty supervision.

398 PROFESSIONAL PRACTICE: INTERNSHIP IN APPLIED COMPUTER SCIENCE 1-6 F,S
By application only. Cons ACS Director. May be repeated max 8 hrs.

Philosophy

Chairperson: Kenton Machina, 412 Stevenson Hall.
Faculty: Professor: Kennard. Associate Professor: Machina. Assistant Professors: Andrade, Cadieux, Davis, Gorr, Gowen, Hanson, Henry, Michalec, Rosenbaum.

Philosophy Programs

Degrees Offered: B.A., B.S. Further Information: Department of Philosophy. Separate liberal arts and teacher education (minor only) programs.

MAJOR IN PHILOSOPHY

— 27 hours in Philosophy.
 — Required PHI courses by area: 110 or 210 (Logic); 254 and 255 (History of Philosophy); 232 (Ethics); 361 and 362 (Epistemology and Metaphysics); at least two additional courses at the 200 level or 300 level.

Each major works out a coherent program of supporting courses tailored to the student's needs in consultation with a faculty adviser.

MINOR IN PHILOSOPHY

— 18 hours in Philosophy required.
 — Required PHI courses by area: 110 or 210 (Logic); 254 and 255 (History of Philosophy); at least 9 additional hours in PHI.
 — Not more than two 100 level courses may count for the minor.

MINOR IN PHILOSOPHY EDUCATION

— 21 hours in Philosophy required.
 — Required PHI courses by area: 110 or 210 (Logic); 254 and 255 (History of Philosophy); 232 or 240 or 242 (Ethics); 360 or 361 or 362 (Epistemology or Metaphysics); at least 6 additional hours in PHI with at least one 200 or 300 level course.

Notes on Philosophy Programs: Students wishing to minor in Philosophy are requested to inform the department of their intention and are invited to discuss their program with an adviser in the Department of Philosophy.

Philosophy Courses

Freshmen wishing to select a Philosophy course should normally enroll in a 100-level course. Other students may begin with any 100 or 200-level course. Courses at the 300 level presuppose at least one course in Philosophy or consent of the instructor.

101 BASIC ISSUES IN PHILOSOPHY 3 US-B F,S
Formerly PHI 130: INTRODUCTION TO PHILOSOPHY.

An introduction to traditional philosophical issues, e.g., knowledge, reality, freedom, God, and morality.

110 THINKING LOGICALLY 3 US-A F,S
Formerly LOGIC.

Principles and techniques of correct reasoning and logical thinking.

120 PHILOSOPHY OF RELIGION 3 US-B F,S

Evaluation of the evidence for certain basic religious beliefs concerning the existence of God, the occurrence of miracles, evil, religious experience, faith, etc.

138 MORAL AND SOCIAL VALUES 3 US-B F,S
Formerly SOCIAL PHILOSOPHY (PHI 100 in 74-75 catalog).

Examination of current social issues — e.g., abortion, capital punishment, etc. — in light of differing views concerning moral and social principles.

150 PHILOSOPHY AND THE SCIENCES 3 US-B F,S

An introduction to the structure and historical development of scientific methodology and comparison of this methodology with pseudo-scientific practice.

203 EXISTENTIALISM 3 US-B S

Examination of existentialist themes — such as absurdity, authenticity, freedom, meaninglessness, alienation, and subjectivity — and their relevance to 20th century society.

207 ORIENTAL PHILOSOPHY 3 US-B F
An examination of the philosophical traditions of the Orient.

209 PHILOSOPHY OF HISTORY 3 US-B
Speculative and analytical approaches to problems of historical objectivity, knowledge, inevitability, explanation, and pattern or progress in history.

210 SYMBOLIC LOGIC 3 US-A F
Also offered as MAT 210.

Introduction to proof theory. Formal deductive systems, especially propositional logic and predicate logic. Properties of deductive systems, such as consistency and completeness.

220 RELIGION, REASON AND FAITH 3 US-B S
Formerly PHI 320: TOPICS IN PHILOSOPHY OF RELIGION.

Examination of the respective roles of reason and faith in religious belief systems. How do we decide which religion — if any — to accept

232 ETHICS 3 US-B F
Examination of major thinkers. Discussion of problems concerning value, obligation, virtue, moral justification and moral standards.

239 PHILOSOPHY AND THE ARTS 3 US-A F
Formerly PHI 231: AESTHETICS

Analysis of problems and concepts encountered in discussing the nature, interpretation, appreciation, and criticism of art.

240 SOCIAL AND POLITICAL PHILOSOPHY 3 US-B S
Formerly PHI 200: TOPICS IN SOCIAL AND POLITICAL PHILOSOPHY.

Discussion of traditional and contemporary issues, e.g., human rights, theories of justice, Marxism, civil disobedience, punishment, and the end and limit of government.

242 PHILOSOPHY OF LAW 3 US-B F,S
Formerly PHI 208.

Evaluation of conflicting views concerning the nature of law, legal obligation, legal rights, and the justification of punishment.

250 PHILOSOPHY OF SCIENCE 3 US-B F
Formerly PHI 211.

The nature of scientific theories, methods, reasoning, hypotheses, laws, and explanations.

253 PHILOSOPHY AND THE BEHAVIORAL SCIENCES 3 US-B S
Formerly PHI 206: PHILOSOPHY OF SOCIAL SCIENCE.

Examination of philosophical issues raised by and relevant to the scientific study of human behavior.

254 ANCIENT AND MEDIEVAL PHILOSOPHY 3 US-B F
Formerly HISTORY OF PHILOSOPHY I.

Classical western philosophical ideas from earliest times to the 15th century. The pre-Socratics, Socrates, Plato, Aristotle, Augustine, Aquinas, and others.

255 SEVENTEENTH AND EIGHTEENTH CENTURY PHILOSOPHY 3 US-B S
Formerly HISTORY OF PHILOSOPHY II.

Classical western philosophical ideas of the 17th and 18th century. Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant.

305 TWENTIETH CENTURY PHILOSOPHY 3 US-B
One PHI course or cons inst. Formerly PHI 302: CONTEMPORARY PHILOSOPHY.

Examination of major philosophical movements of the 20th century focusing on representative figures.

350 TOPICS IN THE HISTORY OF PHILOSOPHY 3 US-B
PHI 254 or 255 or cons inst. May be repeated.

Intensive examination of some major figure or movement in the history of philosophy such as Plato, Kant, or British Empiricism.

360 PHILOSOPHY OF MIND 3 US-B
Two PHI courses or cons inst.
Dualistic, materialistic and behavioristic theories of mind. Knowledge of other minds. Mental concepts like intention, dreaming, memory, and action.

361 THEORY OF KNOWLEDGE 3 US-B F
Two PHI courses or cons inst.

Classical and contemporary theories of knowledge. Problems of meaning, truth, certainty, a priori knowledge, induction, and perception.

362 METAPHYSICS 3 US-B S
Two PHI courses or cons inst.

Classical and contemporary metaphysical theories. Problems of substance, change, universals, time, space, mechanism, teleology, and freedom.

390 INDEPENDENT STUDY 1-3
One PHI course, cons inst.

Physics

Chairperson: Harold J. Born, 311B Moulton Hall.

Faculty: Professors: Born, Crew, Frahm, Schroeer, Young. Associate Professors: Jesse, Luther. Assistant Professors: Baughn, Edwards, Fu, Greenseth, Warren.

Physics Programs

Degrees Offered: B.S. Further Information: Department of Physics. Separate liberal arts and teacher education programs.

The undergraduate program in physics at ISU is sufficiently flexible to meet the needs of students with one or more of the following goals: (1) continued education in one of the allied fields such as astronomy, engineering, meteorology or oceanography, (2) secondary school teaching of physics or physical science, (3) industrial research and development, (4) liberal arts background for medicine, the allied health professions, patent law, technical sales, or industrial management, (5) continued study in physics at the graduate level, (6) education for an increasingly technical society. Students are strongly encouraged to select those courses which are consistent with their goals and should consult with their academic advisers in planning an appropriate program.

MAJOR IN PHYSICS

- 37 hours in Physics required.
- Required courses: PHY 110, 111, 220, 225, 230, 240, 252, 270 (3 hours); 9 hours of 300-level PHY courses; CHE 140 and 141 (or 150) also required for the major.

MAJOR IN PHYSICS EDUCATION

- 36 hours in Physics required.
- Required courses: PHY 110, 111, 220, 240, 252, 270 (2 hours), 301; electives must be chosen from 200 level or

above PHY courses; CHE 140 and 141 (or 150) also required for this major.

MINOR IN PHYSICS

- 23 hours in Physics required.
- Required courses: PHY 110, 111, 252.

MINOR IN PHYSICS EDUCATION

- 23 hours in Physics required.
- Required courses: PHY 110, 111, 252.

Physics Courses

100 ENERGY AND ENVIRONMENT 3 US-C F,S
For non-science maj. Formerly SCIENCE AND SOCIETY.

Scientific and technological aspects of social problems, emphasizing the energy crisis and related issues.

101 INTRODUCTION TO ASTRONOMY 3 US-C F,S
For non-science maj.

Basic astronomy and recent developments in astronomy, including space travel, stellar evolution and cosmology.

102 ASTRONOMY LABORATORY 1 US-C
PHY 101 or cons inst.

Optional lab to complement and extend concepts developed in PHY 101.

105 FUNDAMENTALS OF PHYSICS 4 US-C F,S
HS Algebra or MAT 107. Not for credit if had PHY 108, 110 or equiv. For non-science maj. Lecture and laboratory.

Applications of the principles of physics to everyday living.

108 GENERAL PHYSICS 5 US-C F,S
MAT 107 or 2 sem HS Algebra. Not for credit if had PHY 110 or equiv. Lecture and laboratory. First sem of a two-sem sequence.

Mechanics, wave motion, sound, heat.

109 GENERAL PHYSICS 5 US-C F,S
PHY 108. Not for credit if had PHY 111 or equiv. Lecture and laboratory. Continuation of PHY 108.

Magnetism, electricity, electronics, optics, and radiation.

110 GENERAL PHYSICS 5 US-C F,S
MAT 115 or 135 or conc reg. Not for credit if had PHY 108 or equiv. Lecture and laboratory.

Same as PHY 108 utilizing concepts of calculus.

111 GENERAL PHYSICS 5 US-C F,S
PHY 110 and MAT 116 or 136 or conc reg. Not for credit if had PHY 109 or equiv. Continuation of PHY 110.

201 MODERN ASTRONOMY 3 US-C
PHY 101 and HS Algebra. Not for credit maj min in PHY.

Student-selected topics examined in light of related physical laws. Results of current space programs.

220 MECHANICS 3 F
PHY 109 or 111 and MAT 116.

Particle kinematics and dynamics, oscillations, central force motion, rigid body dynamics.

225 THERMAL PHYSICS 3 S
PHY 109 or 111 and MAT 116 or conc reg.

Thermodynamics, kinetic theory and statistical mechanics with applications to physics, chemistry, biology and engineering.

230 OPTICAL PHYSICS 3 S
PHY 109 or 111 and MAT 116.

Optical systems, wave motion, interference and diffraction, electromagnetic waves.

240 ELECTRICITY AND MAGNETISM 3 F
PHY 109 or 111 and MAT 116.

Electrostatics, electric and magnetic fields, AC and DC circuits, Maxwell's equations.

252 MODERN PHYSICS 3 F
PHY 109 or 111 and MAT 116.

Atomic and molecular physics; introduction to relativity, quantum theory and solid state physics.

270 ADVANCED LABORATORY IN PHYSICS 1-2 F,S
Six hours of 200-level PHY theory courses or cons inst. May be repeated Max 4 hrs.

Use of precision instruments and performance of fundamental experiments.

290 RESEARCH IN PHYSICS 1-3 F,S
20 hrs PHY or cons dept chrpn. May be repeated. Max 3 hrs. 3 hrs conference, laboratory or library research per week for each hr of credit.

Development of better understanding of significance of research in physics through study of a research problem.

300 BASIC CONCEPTS OF PHYSICS 3
HS Algebra. Not for credit maj min in PHY.

Basic treatment of physics for teachers of elementary science.

301 PROBLEMS IN THE TEACHING OF HIGH SCHOOL PHYSICS 3 F,S
16 hrs in PHY or cons inst. For teaching majors only.

Modern methods and problems confronting teachers of high school physics.

302 MUNICIPAL AND INDUSTRIAL SCIENCE 3
PHY 111, CHE 141, 6 hrs in CHE or PHY at 200 level.

Field trips to municipal and industrial facilities, with coordinated lectures and discussion.

315 ASTROPHYSICS 3 F,S
PHY 225 and 230 or cons inst.

Planetary and stellar astronomy; structure and evolution of stars and galaxies; cosmology.

320 MECHANICS 3 F,S
PHY 220 and MAT 175 or 340.

Transformations of coordinate systems; oscillations; calculus of variations; Lagrangian and Hamiltonian dynamics; rigid body dynamics.

340 ELECTRICITY AND MAGNETISM 3 F,S
PHY 240.

Boundary value problems in electro and magnetostatics; Maxwell's equations; electromagnetic waves and radiation.

355 MOLECULAR AND SOLID STATE PHYSICS 3 F,S
PHY 252, 225.

Introduction to the spatial, dynamic and electric properties of condensed matter.

360 NUCLEAR PHYSICS 3 F,S
PHY 252. Graduate credit available only if approved by student's maj dept prior to enrollment.

Basic nuclear properties; radioactivity; low energy nuclear

reactions; interaction of particles and radiation with matter; nuclear models.

375 ELECTRONICS FOR SCIENTISTS 3 S
PHY 109 or equiv.

The operation and design of electronic circuits and electronic instruments.

382 RELATIVITY 3 F,S
PHY 220, 240, 252.

Relativistic mechanics, optics and electrodynamics. Tensors and introduction to general relativity including the Schwarzschild solution and gravitational waves.

384 INTRODUCTION TO QUANTUM MECHANICS 3 F,S
PHY 252 and MAT 220 or 240.

Mathematical formulation of quantum theory and applications to simple systems.

385 ATOMIC PHYSICS 3 F,S
PHY 384 or PHY 252 and cons inst. Formerly ADVANCED MODERN PHYSICS.

Application of quantum theory to atomic systems including angular momentum theory, atomic structure and atomic transitions.

387 METHODS OF MATHEMATICAL PHYSICS 3 F,S
PHY 220 and 240 or cons inst.

Vector calculus; partial differential equations of science and engineering; Fourier series and integrals; complex variables.

388 PHYSICS AND COMPUTERS 3 F,S
MAT 116, 168 (FORTRAN); PHY 109 or 111.

Solution of physics problems by computer. Problems include electric circuits, classical and quantum waves, Monte Carlo techniques, data analysis.

Political Science

Chairperson: Hibbert R. Roberts, 306 Schroeder Hall.

Faculty: Professors: Kohn, H. Roberts, Verner, Zeidenstein. Associate Professors: Chung, Eimermann, Gueguen, Honan, Hunt, Mead, Monroe, Wilson. Assistant Professors: Botsch, Drolesky, Elder, Gordon, Kiser, Payne, Peterson, Pope, F. Roberts.

Political Science Programs

Degrees Offered: B.A., B.S. Further Information: Department of Political Science. Identical liberal arts and teacher education programs.

The study of political science can be applied to a number of career areas. Information concerning the various areas, such as law, governmental employment, international opportunities, and teaching, is available from the department's undergraduate adviser.

MAJOR IN POLITICAL SCIENCE

- 30 hours in Political Science required and an additional 18 hours in related social science fields.
- Required courses: POS 105, 109; at least 3 hours in 4 of the 5 areas of (1) Political Philosophy, Theory, and Methodology, (2) American Politics, (3) Comparative Politics, (4) International Relations, and (5) Public Law and Public Administration; at least 18 hours selected from at least two of the areas of Anthropology, Economics, Geography, History, Philosophy, Psychology, and Sociology. POS 105 and 109 are required, but do not count toward the hours required in areas 1 and 2.

MINOR IN POLITICAL SCIENCE

- 18 hours in Political Science required.
- Required courses: POS 105, 109.

Legal Studies Program

No major offered. Further information: Dr. Thomas Eimermann, Coordinator of Legal Studies, 371 Schroeder Hall. Liberal arts program only; no teacher education program available. The Legal Studies program offers an interdisciplinary curriculum designed to provide knowledge and skills related to various types of paralegal careers. This program may not be appropriate for pre-law students. While a major is not offered, interested students should consult the Legal Studies Coordinator about the possibility of an Individualized Contract Major.

Students wishing to minor in Legal Studies must petition for admission to the Coordinator of Legal Studies following the completion of 30 semester hours of coursework.

MINOR IN LEGAL STUDIES

- 21 hours required.
- Required courses (12 hours): FAL 110, 111; POS 215, 381.
- Elective courses (9 hours selected from among the following Legal Specialization courses): ACC 333, 334; BEA 270; COR 204; FAL 260, 311; POS 216, 314, 315, 316, 317, 318, 319, 320, 322, 391.

Political Science Courses

In meeting program requirements in Political Science, the student should note that the courses are considered in areas, as follows:

1. Political Philosophy, Theory, and Methodology, 262, 263, 264, 313, 362, 363, 364.
2. American Politics: 211, 213, 215, 217, 221, 222, 223, 229, 310, 312, 321.
3. Comparative Politics: 141, 241, 242, 244, 245, 246, 306, 344, 345, 346, 347, 348.
4. International Relations: 251, 252, 253, 351, 354, 356.
5. Public Law and Public Administration: 231, 232, 315, 316, 317, 318, 329, 330, 331, 381.

Political Science courses not listed under an area count as electives toward the major and minor credit hours requirement. Students should consult the department adviser to learn which Selected Studies courses may satisfy area requirements.

105 AMERICAN GOVERNMENT AND POLITICS 3 US-D F,S

Surveys the entire U.S. political process, concentrating on the national level. Includes Constitutional structure, patterns of behavior, and policy-making institutions.

109 INTRODUCTION TO POLITICAL INQUIRY 3 US-D F,S

POS 105 rec.

Acquaints the beginning student with major issues, systematic approaches, and research techniques involved in the study of politics.

141 COMPARATIVE EUROPEAN GOVERNMENT 3 US-D F,S

Structure, function, and political processes of European governments. Emphasis on Britain, Soviet Union, France, and West Germany.

- 211 AMERICAN POLITICAL PARTIES 3 US-D F,S**
A contemporary description and appraisal of four elements of parties: organization, voters, parties in elections, and parties in government.
- 213 CONGRESSIONAL POLITICS 3 US-D F,S**
Major congressional institutions and proposals for their reform, primarily through play of classroom game-simulations.
- 215 AMERICAN JUDICIAL PROCESS 3 US-D F,S**
Introduction to the major elements of the judicial system: police, lawyers, juries, and judges. Concentrates on organization and behavior. (A Legal Studies required course.)
- 217 AMERICAN PRESIDENCY 3 US-D S**
The presidency is examined pre-eminently as an office of political influence, decision-making, and policy implementation.
- 220 CAMPAIGN POLITICS 3 US-D**
Consideration of campaign planning, management, and activities through reading, discussion, and supervised student campaign participation. Ordinarily scheduled to coincide with primary and general election years.
- 221 AMERICAN STATE AND LOCAL GOVERNMENT 3 US-D F,S**
Structures and functions of state and local governments. Includes discussion of comparative state and local politics and policy outputs.
- 222 URBAN POLITICS AND PROBLEMS 3 US-D F,S**
A systems analysis of the processes and interactions of the environmental, social, economic, and power components of urban political systems.
- 223 BLACK POLITICS 3 US-D F**
A wide-ranging examination of the political activities of Black Americans, with emphasis on the present. Topics include interest group activities, voting and elections, confrontation, leadership, ideology formation, and government policy.
- 229 AMERICAN POLITICAL EXTREMISM 3 US-D F**
Cons inst req.
Examination of extremists, individuals, and movements in America; special emphasis on the present.
- 231 PUBLIC ADMINISTRATION 3 US-D F,S**
Mission, structure, function, politics, and public policy development of public administration, including parameters of public finance and personnel.
- 232 POLITICS AND PUBLIC POLICY 3 US-D F,S**
Introduction to the political processes of public policy formation, including theories, and an analysis and evaluation of selected policy areas.
- 241 BRITISH GOVERNMENT 3 US-D F,S**
Intensive study of the structure and process of the government of Britain and its political process.
- 242 SOVIET GOVERNMENT AND POLITICS 3 US-D F,S**
A study of how the Soviet system works—its strengths, weaknesses and prospects. Both Soviet and western perspectives are discussed.
- 244 POLITICS OF DEVELOPING AREAS 3 US-D F**
Analysis of the political systems of newly industrializing societies — primarily of Asia, but also of Latin America and Africa.
- 245 REVOLUTIONARY LEADERSHIP 3 US-D S**
May be repeated if content different.
Investigation of the role of revolutionary leaders in the independence movements and political development of emerging nations.
- 246 AFRICAN POLITICS 3 US-D F,S**
Comparative analysis of African political systems, including such contemporary problems as the politics of race, nation building, and economic development.
- 251 INTERNATIONAL RELATIONS 3 US-D F,S**
Examination of the international political system; focuses upon factors that influence inter-nation behavior.
- 252 INTERNATIONAL ORGANIZATIONS 3 US-D S**
Introduction to the role of international organizations in world affairs and policies of individual nations and private groups.
- 253 FOREIGN POLICIES OF MAJOR POWERS 3 US-D F**
A comparative analysis of the objectives, formulation, and implementation of foreign policies of the U.S., U.S.S.R., China, and other powers.
- 262 MODERN POLITICAL PHILOSOPHY 3 US-D F,S**
From Machiavelli through Marx.
- 263 COMMUNIST POLITICAL THOUGHT 3 US-D F,S**
A critical analysis of Marxist theory, its origins, development, and ideological significance.
- 264 PERSONALITY AND POLITICS 3 US-D F,S**
Introductory consideration of psychological factors useful for the analysis of political behavior.
- 306 REGIONAL AND AREA STUDIES 1-9 US-E**
Cons inst. Usually given cooperatively with other depts.
Intensive study of particular lands, environments, cultures, and peoples.
- 310 VOTING AND ELECTIONS 3 US-D F**
Intensive investigation of U.S. voting behavior and electoral process; includes instruction in analysis techniques.
- 312 PUBLIC OPINION 3 US-D F,S**
POS 105 or SOA 106.
Includes attention to social and psychological bases of public opinion, current trends, methods of measurement, and opinion-policy linkages.
- 313 COLLECTIVE DECISION-MAKING 3 US-D S**
Game theory approach to decision-making in large groups, including legislatures, unions, oligopolies, bureaucratic organizations, and inter-nation negotiations.
- 315 CONSTITUTIONAL LAW: FUNCTIONS AND POWERS 3 US-D S**
Major Supreme Court decisions on federalism, separation

of powers, taxation, commerce, voting, and citizenship. (A Legal Studies specialization course.)

316 CONSTITUTIONAL LAW: CIVIL LIBERTIES 3 US-D F

Major Supreme Court decisions involving rights of the accused, discrimination, free expression, and freedom of religion. (A Legal Studies specialization course.)

318 ADMINISTRATIVE LAW 3 S

An overview of administrative law topics such as legislative, executive, and judicial control of administrative actions, public and private access to information, the administrative hearing process and other due process concerns. (A Legal Studies specialization course.)

321 COMMUNITY POWER AND POLITICS 3 F,S

Introduction to community research techniques. Substantive analysis of community power studies. Emphasis on local government structure and politics and the structure and politics of community social services.

329 INTERGOVERNMENTAL RELATIONS 3 US-D F

Federalism in theory and practice, focusing on U.S.; politics and policy in intergovernmental contexts; recent initiatives and current problems.

330 PROBLEMS OF PUBLIC ADMINISTRATION 3 US-D F,S

May be repeated if content different.

Varied approaches to problems relevant to public policy, organization development, management, staff, or personnel concerns, or applied behavioral techniques.

331 PUBLIC PERSONNEL ADMINISTRATION 3 US-D

The personnel process in American bureaucracy; matching the individual and the job; employer-employee relations; employee motivation; problems and prospects.

344 POLITICAL DEVELOPMENT AND NATION BUILDING 3 US-D F,S

Analysis of newly industrializing societies, featuring discussion of major social and psychological theories of political change and development.

345 ASIAN POLITICS 3 US-D

May be repeated.

Comparative studies in the government and politics of selected Asian nations.

346 CENTRAL AMERICAN POLITICS 3 US-D

Politics of Central American integration and politics of the six countries of the Isthmus.

347 SOUTH AMERICAN POLITICS 3 US-D

Politics of development and regional integration in South America, using selected countries as examples.

348 VIOLENCE AND MODERNIZATION 3 US-D

Theoretical analysis of major political "breakdowns" (turmoil to civil war) in contemporary societies, particularly those in the developing world.

351 INTERNATIONAL LAW 3 US-D S

Political nature, legal principles, and juridical procedures and cases of contemporary international law.

354 SOVIET FOREIGN POLICY 3 US-D F,S

A study of the strengths and weaknesses of Soviet foreign

policy. Focuses on the foreign policy decision-making system, on intentions and capabilities.

356 AMERICAN FOREIGN POLICY 3 US-D F,S

An analysis of the formulation, implementation, and content of American foreign policy.

362 CLASSICAL POLITICAL PHILOSOPHY 3 US-D F,S

May be repeated with cons inst.

Introduction to the origin and development of inquiry about man's life in political association.

363 AMERICAN POLITICAL THEORY 3 US-D F,S

Previous exposure to political theory assumed.

Political ideas of recent and contemporary American thinkers.

364 CONTEMPORARY POLITICAL THOUGHT 3 US-D F,S

Survey of major political theories between the end of the 19th century (since Marx) and the present.

390 PUBLIC SERVICE INTERNSHIP 1-6 F,S

Cons inst. Max 6 hrs. POS maj; max 3 hrs. POS min.

Planned, supervised experience in a governmental or community organization, providing on-the-job training and introduction to public service careers.

Legal Studies Courses

The following courses are designed for the Legal Studies program. Except for POS 317, 381, and 391, these courses may not be counted for credit toward a POS major or minor.

216 INTRODUCTION TO TORTS 3 S

Not for credit POS maj min.

An introduction to the fundamental concepts of tort law. Topics include intentional and unintentional wrongs, varieties of liability and courses of action.

314 INVESTIGATIVE TECHNIQUES 3 S

POS 216. Not for credit POS maj min. Undergrad credit only.

An analysis of techniques for the gathering and preparation of evidence for use in legal disputes.

317 POVERTY LAW 3 F,S

An examination of political and legal responses to the problems of the poor. Major legal innovations in landlord-tenant, consumer, and welfare rights are studied.

319 PROBATE LAW 3 F

Not for credit POS maj min. Undergrad credit only.

An introduction to the fundamentals of probate law with emphasis on tasks which can be performed by paralegals.

320 CIVIL TRIAL AND APPELLATE PRACTICE 3 S

Not for credit POS maj min. Undergrad credit only.

An analysis of the stages of a civil law suit from filing to judgment and appellate review. Special attention will be paid to those functions which can be performed by paralegals.

322 DOMESTIC RELATIONS LAW 3 F

Not for credit POS maj min. Undergrad credit only.

An overview of the laws and procedures governing legal aspects of marriage and child custody. Emphasis is placed on tasks which can be performed by paralegals.

381 INTRODUCTION TO PARALEGALISM 3 F,S

Cons inst.

This course emphasizes the acquisition of legal research skills and the professional and ethical aspects of paralegalism.

391 PARALEGAL INTERNSHIP 1-6 F,S

POS 381 and cons inst. May be repeated. Max 6 hrs.

The course provides field experience for students working in internships involving paralegal skills.

Psychology

Chairperson: Macon L. Williams, 435 DeGarmo Hall.

Faculty: Professors Brown, Cashen, Crist, Friedhoff, Gamsky, Gnagey, Hogan, Jacks, Johnson, Lemke, McCoy, Ramseyer, Vernon. Associate Professors: Berk, Carrington, Chesebro, Gill, Grupe, Lamb, Leicht, Lewis, Rumery, Schmaltz, Schmidt, J. Williams, M. Williams. Assistant Professors: Beehr, Berger, Bergner, Bowman, Chalmers, Gilmore, Goebel, Goldstein, Graybill, Hardwick, House, Hutter, Manelis, Moore, Presser, Redding, Reeder, Sodetz, Swerdlik, Vaughn, Vinitsky. Instructor: Overton. Lecturer: Baum. Faculty Associate: Waimon.

Psychology Programs

Degrees Offered: B.A., B.S. Further Information: Department of Psychology. Separate liberal arts and teacher education programs.

All students seeking a major in Psychology are required to take Mathematics 110 or 120 depending on high school mathematics completed. Students who have the equivalent of either 110 or 120 or who earn sufficiently high scores on the Mathematics Placement Test are exempt from this requirement.

MAJOR IN PSYCHOLOGY

- 27 hours in Psychology required.
- Required courses: PSY 111, 330, 331, 340.
- All majors, after consultation and agreement with their advisers, may select the balance of their program from among all other courses offered by the department, except that not more than 12 hours of 100 level PSY courses or courses transferred from community colleges may count toward the major.

Concentrations: All majors should be aware that the department has delineated various concentrations which can be useful in planning the student's total academic program at ISU. Although not prescribed or required, the advisement plans for the concentrations are useful for students who have some idea as to the career they wish to pursue after graduation. The areas of concentration are: General (an area designed for students who wish to enroll in courses representing a broader range of content), Social Service, Business and Industrial, Teaching Psychology in the Schools, Graduate (designed for students anticipating graduate study in Psychology). Majors should seek more information about the concentrations from the department academic advisers.

MAJOR IN PSYCHOLOGY EDUCATION

- 32 hours in Psychology required; requirements are otherwise identical to major in Psychology.

MINOR IN PSYCHOLOGY AND PSYCHOLOGY EDUCATION

- 21 hours in Psychology required.
- Required courses: PSY 111, 330, 340.

Honors in Psychology: The department offers honors work for superior students majoring in Psychology. In order to qualify the student must have achieved senior standing at the University, have achieved a university GPA of 3.00 or better and have a GPA of 3.50 or better in PSY course work. Finally, the student must complete a senior thesis (worth at least 3 semester hours credit and registered for PSY 299-Independent Honors Study) which satisfies the usual canons of scholarship. The student completing the program may choose to present the thesis at an Honors Colloquium.

Psychology Courses

111 GENERAL PSYCHOLOGY 3 US-D F,S

Students may be expected to participate in experiments.

Introduction to the discipline of psychology as the scientific study of behavior with emphasis on general principles.

112 CHILD AND ADOLESCENT DEVELOPMENT 3 US-D F,S

PSY 111. Not for credit maj or if had PSY 301, 302 or C&I 210.

Physical, social, emotional and mental development of the child from conception through adolescence.

123 HUMAN SEXUALITY 3 F,S

SOA 106 or PSY 111. Not for credit if had SOA 123.

Basic psychological, socio-cultural, and physiological elements of human sexuality.

131 SOCIAL PSYCHOLOGY 3 US-D F,S

PSY 111 or SOA 106. Not for credit if had SOA 131.

Scientific study of behavior as influenced by other individuals; communication, motivation, differential social and cultural factors in personality; social interaction.

201 PSYCHOLOGICAL PRINCIPLES APPLIED TO CORRECTIONAL REHABILITATION 3 F,S

COR 101, PSY 111. Also offered as COR 201.

Psychological concepts related to the behavior and treatment of offenders.

215 EDUCATIONAL PSYCHOLOGY 3 F,S

PSY 111. Designed for prospective high school teachers.

Application of psychology to education covering human learning in school setting; evaluation and measurement of learning outcomes, developmental factors and learning, and social factors of learning.

230 BUSINESS AND INDUSTRIAL PSYCHOLOGY 3 F,S

PSY 111.

Behavioral factors related to business and industry. Personnel practices, individual-group interaction, leadership and morale, fatigue and safety and consumer behavior.

232 PERSONALITY 3 US-D F,S

PSY 111. Formerly PSYCHOLOGY OF ADJUSTMENT.

Representative personality theories and how they interact in today's society with normal and pathological patterns and the modification of these patterns.

290 SPECIAL PROJECTS 1-6 F,S

Cons dept chprn and inst.

Majors in psychology can pursue areas of special interest independently and/or work on special projects. Community as well as University facilities are available.

292 PSYCHOLOGY SEMINAR 2*Senior standing, maj or min only.*

Detailed study of specific area within the discipline.

301 DEVELOPMENTAL PSYCHOLOGY OF CHILDHOOD 3 F,S*PSY 111. Formerly DEVELOPMENTAL PSYCHOLOGY I.*

Motor, cognitive, and emotional development and personality growth of children, birth through pre-adolescence.

302 DEVELOPMENTAL PSYCHOLOGY OF ADOLESCENCE 3 F,S*PSY 111. Formerly DEVELOPMENTAL PSYCHOLOGY II.*

Motor, cognitive, and emotional development and personality growth of the adolescent.

303 ADULT DEVELOPMENT AND AGING 3 F,S*PSY 111.*

A study of physical, cognitive, and personality development during adulthood, with emphasis on theories, empirical data, research methods, and current issues.

305 PSYCHOLOGY OF WOMEN 3 S*PSY 111.*

An examination of psychological research to place in scientific perspective the etiology and behavioral consequences of female and male-oriented attitudes.

320 HISTORY AND SYSTEMS OF PSYCHOLOGY 3 F,S*12 hrs of PSY.*

Historical antecedents of modern psychology, beginning with Aristotle. Examination of modern psychology from a systematic point of view.

330 EXPERIMENTAL PSYCHOLOGY I 3 F,S*PSY 111. Conc reg in PSY 340 rec.*

Philosophy of science and inquiry with emphasis on experimental methodology and some application of principles through laboratory experimentation and demonstration.

331 STUDIES IN EXPERIMENTAL PSYCHOLOGY 3 F,S*PSY 330, 340, or cons inst. May be repeated if content different.*

Individualized research course focusing on particular content areas. Sections concentrate in different areas.

333 PRINCIPLES OF BEHAVIOR MODIFICATION 3 F,S*PSY 111. Formerly EXPERIMENTAL ANALYSIS OF BEHAVIOR.*

Principles of behavior modification with an emphasis upon their use in a variety of educational and clinical settings.

334 PSYCHOLOGICAL MEASUREMENT 3 F,S*PSY 111.*

Selection, evaluation, and interpretation of psychological tests, with emphasis on basic theory. Tests are considered as indicators of constructs in specific decision situations.

335 INTRODUCTION TO MATHEMATICAL PSYCHOLOGY 3 S*PSY 111 and MAT 110 or 120.*

Role of mathematics in psychological theory. Application of mathematical models in measurement, learning, perception and choice.

340 STATISTICS I 3 F,S*PSY 111 or SOA 106. Not for credit if had C&I 340 or SOA 340.*

Application and interpretation of basic statistics used in the behavioral sciences: descriptive statistics, simple hypothesis testing and two-variable regression.

346 PSYCHOLOGY OF EXCEPTIONAL CHILDREN 2 F,S*PSY 112 or 301 or 302 or C&I 210 or cons inst.*

Intellectual, emotional, physical, or social deviations in individuals which create a need for modifications in their education, training, as well as treatment.

347 BEHAVIOR DISORDERS IN CHILDREN 3 F,S*PSY 111.*

Medical, psychological, sociological aspects of behavioral disorders of children.

350 PSYCHOPATHOLOGY 3 F,S*12 hrs of PSY.*

Behavior disorders; neuroses, psychoses, character disorders, mental deficiencies, and other psychopathological conditions.

352 HUMAN ABILITIES 3 F*PSY 334.*

Nature, assessment and organization of human abilities. Empirical and theoretical analysis of genetic and environmental factors in development of abilities.

360 LEARNING 3 F,S*PSY 111.*

Experimental data bearing on the problem of human learning; learning theory; learning data and theory in relation to applied problems.

361 PERCEPTION 3 F,S*9 hrs of PSY.*

Cognitive processes and their relationship to other processes. Relationship of sensation, attention, and memory to perception and factors influencing perception.

363 PHYSIOLOGICAL PSYCHOLOGY 3 F,S*9 hrs of PSY and BSC 100.*

Neurophysiological and biochemical substrates of behavioral processes including sensori-motor, perceptual, motivational, emotional and intellectual behaviors.

364 MOTIVATION 3 F,S*9 hours of PSY.*

Evolution of basic concepts leading to contemporary explanation of determiners of action with application to vocational, social and educational areas.

365 DYNAMICS OF SOCIAL BEHAVIOR 3 F,S*PSY 131.*

An overview of the explanations for various aspects of social behavior, e.g., interaction, attitudes, person perception, etc.

375 PERSONNEL PSYCHOLOGY 3 F,S*PSY 230 or 334 or cons inst.*

Procedures and methods used to match individual skills and abilities to the requirements of specific jobs; emphasis is on personnel selection.

376 ORGANIZATIONAL PSYCHOLOGY 3 F,S*PSY 230 or cons inst. Not for credit if had BUA or MAM 221 or 421.*

Research methods and results concerning social psycholo-

of work organizations. Descriptions of practices of organizational psychology.

Sociology, Anthropology and Social Work

Chairperson: Dorothy Lee, 206 Schroeder Hall.

Faculty: Sociology: Professors: Baker, Davis, Grupp, Hickrod, Pohlmann, Schmitt, Thomas. Associate Professors: Clifton, Eaton, Lee, Leonard, Stivers, Tolone, Treadway, Walsh, Zey-Ferrell. Assistant Professors: B. Griffin, C. Griffin, Heyl, Pocs, Russell. Instructors: Becker, Hicklin, Reitan. Faculty Associate: Haynes. Anthropology: Professor: Jelks. Associate Professors: Dirks, Reyman. Assistant Professors: K. Calavan, M. Calavan, Nickels. Instructor: Schilt. Social Work: Associate Professors: Montgomery, Pratt. Assistant Professors: Baptiste, Bowers, Crooks, Kagle, Schreiber. Instructor: Melka.

Sociology Programs

Degrees Offered: B.A., B.S. Further Information: Department of Sociology, Anthropology and Social Work. Identical liberal arts and teacher education programs, except that HIS 390 is required for students who are candidates for certification in secondary education.

MAJOR IN SOCIOLOGY

- 30 hours in Sociology required and 18 hours in related fields.
- Required courses: SOA 106, 240, 270, 271, and electives to complete 30 hours; at least 18 additional hours in the social-behavioral sciences of Anthropology, History, Economics, Political Science, and Psychology, with at least 3 hours in Anthropology, Economics, and Psychology and not more than 6 hours in any one field counted toward the 18 hour requirement. No Anthropology or Social Work course may be counted toward the 30 hours in Sociology required for the major.

MINOR IN SOCIOLOGY

- 18 hours in Sociology required.
- Required course: SOA 106. No Anthropology or Social Work course may be counted toward the 18 hours in Sociology required for the minor.

Anthropology Programs

Degrees Offered: B.A., B.S. Further Information: Department of Sociology, Anthropology and Social Work. Identical liberal arts and teacher education programs, except that HIS 390 is required for students who are candidates for certification in secondary education.

MAJOR IN ANTHROPOLOGY

- Minimum of 30 and maximum of 45 hours in Anthropology required.
- Required courses (21 hours): SOA 180, 182, 183, 273, 285, 286, 380.
- Electives (9 hours) selected from among other Anthropology courses.

Students will be advised in individual consultation to take a number of supporting courses in cognate disciplines. The program in cognates may emphasize either the social sciences or the natural sciences, reflecting the student's primary interest in cultural anthropology, biological anthropology, or archeology. No Sociology or Social Work course may be counted toward the 30 hours in Anthropology required for the major.

MINOR IN ANTHROPOLOGY

- 18 hours in Anthropology required.
- Required courses: SOA 180, 182, 183.

Additional Anthropology electives will be recommended on an individual basis. No Sociology or Social Work course may be counted toward the 18 hours in Anthropology required for the minor.

Social Work Program

Degrees Offered: B.A., B.S. Further Information: Department of Sociology, Anthropology and Social Work. Liberal arts only program; no teacher education program available.

COMPREHENSIVE SOCIAL WORK MAJOR

- Total of 53 hours required, including 21 hours in Foundation courses and 32 hours in Core courses in Social Work.
- 21 hours required in Social Work Foundation courses:
 - Required courses (15 hours): ECO 100; POS 105 or 215; PSY 111; SOA 106, 271.
 - Elective courses (6 hours) selected from among BSC 100; PSY 112, 301, 302; SOA 180, 261, 262, 264, 272, 332, 384.
 - 32 hours required in Social Work Core courses, including SOA 221, 222, 223, 325, 335, 368, (6 hours), 378 (8 hours), 391. Suggested electives include COR 101, C&I 109, 312, PHI 138, POS 264, SOA 107, 131, 260, 263, 270, 282, 287, 323, 342, 366, or other relevant courses selected in consultation with the student's Social Work adviser.

Admission to the Social Work Major: In order to be accepted for admission to the Social Work program, a student must have at least 60 semester hours of credit and must have completed SOA 221 with a grade of C or better. The applicant's grade point average must be 2.5 or better, and the student must have had, or be currently involved in, a volunteer or paid work experience in a social welfare agency. Students are required to make a formal application to the Social Work faculty for admission to the program and should make application during the semester in which the student expects to complete 60 semester hours or more. Further information on admissions procedures is available in the Sociology, Anthropology and Social Work Department.

Sociology Courses

106 INTRODUCTION TO SOCIOLOGY 3 US-D F,S

Structure and dynamics of human society. Concepts of culture, socialization, stratification, collective behavior, family, minority relations, population, crime.

107 SOCIAL PROBLEMS 3 US-D F,S SOA 106.

The nature, social definition, and interrelationship of social problems. Selected topics may include aspects of societal problems and deviant behavior.

123 HUMAN SEXUALITY 3 F,S SOA 106 or PSY 111. Not for credit if had PSY 123.

Basic psychological, socio-cultural, and physiological elements of human sexuality.

131 SOCIAL PSYCHOLOGY 3 US-D F,S SOA 106 or PSY 111. Not for credit if had PSY 131.

The scientific study, from a sociological perspective, of the attitudes and behavior of individuals in the group setting and interaction between individuals and groups.

- 240 SOCIAL STATISTICS** 3 F.S
SOA 106 or PSY 111. Formerly SOA 340: STATISTICS.

Application and interpretation of basic descriptive and inferential statistics used in behavioral research. Non-parametric and parametric statistics are considered.

- 260 SOCIAL STRATIFICATION** 3 US-D F.S
SOA 106. Formerly SOA 160.

Theories and character of social class systems, differential class behavior, mobility, power relationships, and caste and estate systems.

- 261 THE COMMUNITY** 3 US-D F.S
SOA 106.

Structure and function of the community. Changes in community; power, leadership, community organization.

- 262 MARRIAGE AND THE FAMILY** 3 US-D F.S
SOA 106.

- 263 DEVIANT BEHAVIOR** 3 US-D F.S
SOA 106.

Causes, societal response and control of deviant behavior. Definition of deviant acts, stigmatization, and the process of reabsorbing deviants.

- 264 MINORITY RELATIONS** 3 US-D F.S
SOA 106. Formerly MINORITY PEOPLES.

Racial, national, and religious minorities and women. Patterns of discrimination and prejudice, and change in inter-group relations.

- 267 POPULATION** 3 US-D F.S
SOA 106.

Dynamics and policy implications of United States and world population size and change including fertility, mortality, migration, composition, spatial distribution, future trends, and relation to resources.

- 268 SOCIOLOGY OF RELIGION** 3 US-D F.S
SOA 106.

Functions and origins of religion; impact of religion on individual, society and culture: social forces affecting religion.

- 270 HISTORY OF SOCIOLOGICAL THOUGHT** 3
SOA 106. Formerly SOA 370.

Analysis and appraisal of classical works in sociology from mid-nineteenth century to the present.

- 271 INTRODUCTION TO SOCIOLOGICAL RESEARCH** 3 F.S
SOA 106. Formerly SOA 371.

Convergence of theory and research; design of inquiry, measurement, survey design, data collection, analysis and interpretation. Research projects are part of the course.

- 332 SMALL GROUPS** 3 F.S
SOA 131 or PSY 131.

Conditions affecting interaction in small groups, the small group as an ongoing social system. Limited research project.

- 333 SOCIALIZATION OF THE INDIVIDUAL** 3 F.S
SOA 106 or PSY 111.

A social psychological approach. Childhood and adulthood socialization are examined from the perspectives of symbolic interactionism, role theory, reference group theory, and self theory. Pragmatic implications are considered.

- 341 SOCIOLOGY OF SEX ROLES** 3 F.S
SOA 106 or PSY 111.

Application of culture concepts, status, role and self concepts, and socialization concepts toward the explanation of sex differences in social behavior. Institutionalized and social change processes are examined.

- 342 ADVANCED HUMAN SEXUALITY** 3 F.S
PSY 123 or SOA 123. Formerly HUMAN SEXUALITY.

Analysis of personal, interpersonal, and sociocultural aspects of sexual relationships.

- 350 SOCIOLOGY OF EDUCATION** 3 F.S
SOA 106.

Sociological perspective on educational systems. Relationship of the educational system to other institutions, organizational characteristics and social factors influencing behavior of students.

- 365 JUVENILE DELINQUENCY** 3 F.S

Delinquency as a social and legal problem; theories of delinquency, the juvenile court; prevention and treatment.

- 366 CONTEMPORARY SOCIAL MOVEMENTS** 3 F.S
SOA 106.

Patterns of collective behavior; structure and functions of social movements. Examination of several social movements, analysis of morals, leadership and control.

- 367 CRIMINOLOGY** 3 F.S

Criminological theory and practice. Crime as a social and legal problem. The administration of justice.

- 369 SOCIAL CHANGE** 3 F.S
SOA 106 or cons inst.

An investigation of social change theory; case studies of change in developing societies undergoing "modernization"; the dynamics and consequences of planned social change.

Anthropology Courses

- 180 INTRODUCTION TO CULTURAL ANTHROPOLOGY** 3 US-D F.S

Examination of human culture in past and present societies.

- 182 INTRODUCTION TO PHYSICAL ANTHROPOLOGY** 3 US-D F.S
Formerly PRINCIPLES OF BIO-ANTHROPOLOGY.

Introduction to the evolutionary and biological nature of humans, physical attributes, primate and human evolution, human variation and adaptation, and the interrelationship of human biology and behavior.

- 183 INTRODUCTION TO ARCHAEOLOGY** 3 US-D F
SOA 180 or 182. Formerly PRINCIPLES OF ARCHAEOLOGY.

Principles, methods and techniques of locating and excavating archaeological sites, interpreting archaeological data, and reconstructing culture history.

- 272 NORTH AMERICAN INDIANS** 3 S
SOA 180. Formerly SOA 382: THE AMERICAN INDIAN.

Comparative survey of selected historic and modern Native American cultures.

- 273 OLD WORLD PREHISTORY** 3 S
SOA 180 or 183 or cons inst.
 Study of selected Old World Cultures, from the Pleistocene through the Neolithic, with the emphasis on the high civilizations.
- 280 ARCHAEOLOGY OF THE MIDWEST** 3
SOA 183.
 Prehistoric Indian populations of the Midwestern United States, including Paleo-Indian, Archaic, Woodland, and Mississippian peoples, from late Pleistocene to the historic period.
- 281 PRINCIPLES OF ETHNOLOGY** 3 US-D F
SOA 180.
 Theory and method in cross-cultural analysis.
- 282 URBAN ANTHROPOLOGY** 3 US-D S
SOA 180 or cons inst.
 Theory and research in urban anthropology; migration and urbanization in Western and non-Western societies.
- 283 PREHISTORY OF NORTH AMERICA** 3 US-D F
SOA 180.
 Prehistoric cultures of North America, from late Pleistocene to the occupation of the continent by Europeans. Origin and development of cultural patterns traced; current problems examined.
- 284 THE ANTHROPOLOGY OF NATIVE AMERICAN ART** 3 S
 Culture-ecology and behavior of historic North American Indian groups, excluding Mexico, as understood from analyses of their art.
- 285 ETHNOGRAPHIC SURVEY** 3 S
SOA 180.
 The study of ethnography as a descriptive mode including an in-depth consideration of selected cultural groups.
- 286 HUMAN EVOLUTION** 3 S
SOA 182.
 A detailed survey of the principal fossil discoveries, controversies, and proposed models of human biological evolution.
- 290 PRIMATE STUDIES** 3 S
SOA 180 or 182.
 Concentrated examination of various aspects of the primates: their biology, behavior, evolution, and significance for understanding human nature.
- 306 REGIONAL AND AREA STUDIES** 1-9 US-E F,S
Cons of inst. Usually given cooperatively with other departments.
 Directed research in any of the subdisciplines in anthropology.
- 380 KEY CONCEPTS IN ANTHROPOLOGY** 3 F,S
SOA 180, 182, 183, 273, 285, 286 or cons inst. Formerly HISTORY OF ANTHROPOLOGICAL THOUGHT.
 Anthropological thought from historical, systematic and applied viewpoint; emphasis on changing content, concepts, methods of the discipline.
- 381 ANTHROPOLOGICAL APPROACHES TO AGRARIAN LIFE** 3
SOA 180 or cons inst. Formerly ECONOMIC ANTHROPOLOGY.
 Emphasis will be given to the assumptions, materials and

decisions in countries of the Third World which affect crop choice, land use, marketing, food selection, and acceptance of innovations.

- 383 STUDIES IN SELECTED CULTURES** 3 F
SOA 180. Formerly SELECTED STUDIES IN CULTURE AREAS.

Culture patterns of selected areas. Physical characteristics, history, social, political, intellectual life, cultural change of aboriginal people.

- 384 AFRO-AMERICAN ADAPTATIONS** 3 S
SOA 180.

A comparative study of Afro-American populations in a variety of ecological niches throughout the New World. The styles, strategies, and traditions of Afro-America, both historical and contemporary are analyzed in relation to tribal, peasant, and proletariat communities.

- 385 POLITICAL ANTHROPOLOGY** 3 F
SOA 180.

The holistic context of political systems is emphasized. Comparative data drawn from primate behavior, tribal societies, and non-Western states analyzed from several theoretical perspectives.

- 386 CULTURES OF SOUTHEAST ASIA** 3 US-D F
SOA 180. Formerly SOA 284.

Patterns of prehistory, history, economics, religion, and daily life in Southeast Asia.

- 388 HISTORICAL ARCHAEOLOGY** 3 S
SOA 183 or cons inst.

Research methods of historical archaeology reviewed, and the principles that underlie the methods examined critically. A local historic site is thoroughly studied as a class project.

Social Work Courses

- 221 INTRODUCTION TO SOCIAL WELFARE** 3 F,S
SOA 106, PSY 111.

Origins and development. Impact of social sciences and factors affecting social welfare programs, policies and legislation. Social work as a profession; overview of casework, group work, and community organization.

- 222 SOCIAL WELFARE POLICY AND SERVICES** 3 F,S
SOA 221. Formerly SOCIAL WORK II—SOCIAL WELFARE FIELDS.

Philosophical and historical perspectives of social welfare services, and social work practice. Descriptive, analytical, and critical analysis of social welfare programs, policies, and issues.

- 223 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT** 3 F,S
PSY 232, SOA 261, 264 and 332 or conc reg req.

The integration of major concepts from the social and behavioral sciences in terms of their relevance for social work.

- 323 CHILD WELFARE SERVICES** 3 F,S
SOA 221, 222 or SED or HEC maj. Formerly SOCIAL WORK III—CHILD WELFARE SERVICES.

It is recommended that this course be taken before SOA 368 if the student wishes placement in a child-serving agency. Services for dependent, neglected and handicapped children.

325 SOCIAL WORK METHODS I 3 F.S
SOA 223. Formerly SOCIAL WORK IV PROBLEMS IN SOCIAL CASEWORK.

Basic theory, values, and beginning skills development generic to social work practice at individual, group, and community levels.

335 SOCIAL WORK METHODS II 3 F.S
SOA 325.

Course is a continuation of methodology and skills in social work practice, and focuses specifically on knowledge, principles, techniques and approaches to effect change in small groups, organizations, communities, and larger collectives.

368 SOCIAL WORK FIELD INSTRUCTION I AND SEMINAR 3-10 F.S
SOA 335 and sr. standing. Formerly SOCIAL WORK INTERVENTION METHODS.

Supervised field instruction and practice in social work methods with individual, groups, and communities in a social welfare agency.

378 SOCIAL WORK FIELD INSTRUCTION II 8 F.S
SOA 368.

Advanced supervised field instruction and practice in social work methods with individuals, groups, and communities in a social welfare agency. Settings and experiences are different from those of SOA 368. Course includes a weekly, campus-based, faculty-led seminar in which theoretical material is integrated with the students' field practice experiences.

391 SENIOR SEMINAR IN SOCIAL WORK 3 F.S
SOA 386 or conc reg.

A seminar on specific selected topics not covered critically elsewhere in the major. Through assigned readings, discussions and the presentation of a substantial researched study, students analyze a social welfare issue or an area of social work practice.

Speech Pathology and Audiology

Chairperson: Martin A. Young, 204 Fairchild Hall.

Faculty: Professor: Young. Associate Professors: Brunt, Haller, Hulit, Hutchinson, Richards, Tannahill. Assistant Professors: Davidson, Howard, Hufnagle, Larson, Monoson, Thomley. Instructors: Duffee, Robinson, Schmeiz, Smith, Smoski, Wiese.

Speech Pathology and Audiology Programs

Degrees Offered: B.A., B.S. Further Information: Department of Speech Pathology-Audiology. Teacher education program in Speech Pathology; non-teaching program in Audiology. Programs are accredited by the American Speech and Hearing Association.

COMPREHENSIVE SPEECH PATHOLOGY AND AUDIOLOGY MAJOR

Speech Pathology Sequence (teacher education program): 33 hours in Speech Pathology-Audiology required. Required courses: PAS 112, 215, 311, 316, 318, 319, 320, 350, 351, 371, 372. In addition, the following Professional Education requirements: SED 145; C&I 210, 220, 231; PSY 232, 334, 346; PAS 399 (Student Teaching), 8 hours.

This is a preprofessional program designed to prepare students for graduate work in communicative disorders. Students must have a master's degree in this field to obtain both the Illinois Certificate in Speech and Language Impaired (formerly Special Education — Speech Correction) and the American Speech and Hearing Association's clinical certificate. Copies of requirements for both of these are available in the departmental office.

The Illinois Certificate in Speech and Language Impaired requires 300 hours of supervised clinical experience. Majors in this program are required to obtain 150 hours of that total by completing one semester hour of PAS 317 and Student Teaching 399. The remaining 150 hours of supervised clinical experience are obtained in graduate school. A cumulative grade point average of 2.6 is required on all work completed at Illinois State University before admission to PAS 317, 352, and 358; a grade point average of 2.6 is required for admission to Student Teaching 399. Admission to a master's program at Illinois State University requires at least a 2.6 grade point average in the last 60 hours of undergraduate work.

Audiology Sequence (non-teaching program): 40 hours required. Required courses: PAS 215, 311, 317 (1 hour), 320, 350, 351, 352 (1 hour), 357, 358 (1 hour), 371, 372; 3 hours of PAS electives; SED 353; PSY 334, 346, 347 or 348.

The audiology sequence is designed to prepare the student for graduate work in audiology. This sequence is a non-teaching sequence and does not qualify the student for a teaching certificate. Upon completion of the master's degree, the student will have completed the academic and clinical requirements for the American Speech and Hearing Association's Certificate of Clinical Competence in Audiology.

MINOR IN SPEECH PATHOLOGY AND AUDIOLOGY

— 21 hours required.

— Required courses: PAS 215, 311, 320, 350. Electives cannot include practicum courses.

Students taking this minor will not qualify in this area for Illinois or American Speech and Hearing Association certification.

Speech Pathology and Audiology Courses

112 SURVEY OF SPEECH AND HEARING DISORDERS 3 US-E F.S
Formerly PAS 212.

Current theories of speech production and reception. Designed for parents and teachers. Includes habilitative and rehabilitative procedures.

114 VOICE AND ARTICULATION 3 F.S
 Voice, speech sounds, and the patterns of standard American English. Practice in achieving optimal use of the speech mechanism in the process of oral communication.

115 INTRODUCTION TO HUMAN VERBAL DEVELOPMENT 3 US-E F.S
 The communication process; emphasis on opportunities for maximum stimulation of speech and language development in children.

120 ACOUSTICS OF SPEECH, MUSIC AND NOISE 3 US-E F.S
Formerly SOUND AND MAN.

Information from acoustics, psychology, physiology, linguistics, speech, and music engineering. Sound; role in

man's endeavors, harmful effects, methods of control. Limited mathematical treatment.

215 INTRODUCTION TO SPEECH

PATHOLOGY 3 F,S

Orientation to speech pathology profession. Introduction to articulation problems.

220 INTRODUCTION TO

CLINICAL METHODS 3 F,S

PAS 215 and 311 or conc req in PAS 311/ if elected, must be taken prior to PAS 317. Maj only.

Introduction to clinical techniques and client management. Records, reports, behavioral observation and assessment, therapy procedures and some laboratory experience.

311 PHONETICS 3 F,S

Sound system of American speech. Standard and non-standard variations. Articulatory and acoustic considerations. Practice in transcribing and reading phonetic symbols.

316 INTRODUCTION TO ORGANIC DISORDERS OF SPEECH 3 F,S

PAS 215.

Speech disorders related to structural, neurological, and endocrine pathologies. Diagnostic and remedial procedures.

317 PRACTICUM IN SPEECH

PATHOLOGY 1/2-1 F,S

PAS 215; 311, and cons Clinic Dir. Overall GPA of 2.6 req. May be repeated. Max 2 hrs. Materials charge.

Approximately 45 hours of supervised clinical practice for each semester hour.

318 ORGANIZATION OF SPEECH, HEARING AND LANGUAGE PROGRAMS 3 F,S

Cons inst.

Professional attitudes, ethics, and organizations. Setting up and maintaining programs. Evaluation, therapy techniques, materials applicable to school settings. Relationships to school and community agencies.

319 STUTTERING I 3 F,S

PAS 215 or cons inst.

Nature and history of the problem. Current models of onset, development and management.

320 SPEECH AND LANGUAGE DEVELOPMENT 3 F,S

Comprehensive study of acquisition of speech and language by children. Emphasis on first six years.

321 LANGUAGE PATHOLOGY 3 F,S

PAS 320 or an equiv human language development crse at the 300 level.

Introduction to language disorders in children and adults which are associated with brain damage, learning disabilities, psychopathology, and mental retardation.

350 AUDIOLOGY I 3 F,S

Principles of hearing measurement: sound, human ear, test methods, hearing losses, screening methods, test interpretation.

351 SPEECH READING AND AUDITORY TRAINING 3 F,S

Principles of habilitation/rehabilitation of communication disorders related to hearing impairment. Visual/auditory speech signals. Amplification: function/use.

352 PRACTICUM IN SPEECH READING AND AUDITORY TRAINING 1/2-1 F,S

PAS 351. Overall GPA of 2.6 req. May be repeated. Max 2 hrs. Cons Clinic Dir. Materials charge.

Approximately 45 hours of supervised clinical practice for each semester hour.

357 PSYCHOLOGICAL IMPLICATIONS OF HEARING IMPAIRMENT 3 S

PAS 350 or equiv.

Hearing impairment: survey of behavior, intelligence and personality data, parental counseling.

358 PRACTICUM IN BASIC AUDIOLOGY 1/2-1 F,S

Cons Clinic Dir. Overall GPA of 2.6 req. May be repeated. Max 2 hrs. Materials charge.

Approximately 45 hours of supervised clinical practice for each semester hour.

371 SPEECH SCIENCE 3 F,S

Elementary acoustical theory and application to study of speech production and reception. Speech spectrography.

372 ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING MECHANISM 3 F,S

Includes effects of deviations on end product.

398 INTRODUCTION TO GRADUATE STUDY IN SPEECH PATHOLOGY-AUDIOLOGY 3 F,S

Introductory review of research strategy and philosophy in speech pathology-audiology for professionals who will be consumers of research literature.

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College of Business

Dean: Frank Harrison, 110 Stevenson Hall.

The primary objective of the College of Business is to prepare undergraduate students for meaningful and productive managerial or professional careers in business, teaching, government, industry, or nonprofit organizations. This preparation is accomplished through the assimilation of a basic common-body-of knowledge encompassing a broad range of business subjects. Specialized emphasis is given to the disciplines of accounting, business education, management, marketing, finance, and office administration. The College also prepares students to meet the needs of educational institutions in the teaching of the several disciplines that constitute the field of business education. The College offers bachelor's degrees in the Department of Accounting, Business Education and Administrative Services, Finance and Law, and Management and Marketing. The College also offers the following master's degrees: (1) Master of Science (MS) in Accounting, (2) Master of Business Administration (MBA), and (3) MS, MA, or M.Ed. in Business Education. The College of Business maintains a viable relationship with business, industrial, and service organizations in the surrounding area. This relationship results in a strong emphasis on non-credit programs for all types of organizations and special learning experiences tailored to the needs of small businessmen. The College of Business provides special recognition for meritorious scholastic performance by students majoring in its programs. The College also has a strong commitment to the professional development of its faculty and to community involvement and public service.

The academic standards of the University apply to all of the programs housed in the College of Business. The following additional academic standards apply to all departments in the College of Business: (1) At least 42 hours of the total 120 hours required for graduation shall be coursework devoted to studies other than business, economics, and administration; (2) The senior year's work, with minor exceptions, must be taken in residence at Illinois State University; (3) Course prerequisites must be taken in required sequence; (4) Students must maintain a cumulative overall grade point average of at least 2.0 to be retained as a major in any one of the academic programs in the College of Business except where higher standards are required in particular departments within the College; and (5) Students transferring into any of the programs housed in the College of Business from other programs in the university or from other academic institutions or between programs within the College of Business must meet the following standards for their cumulative grade point average (GPA): 45-59 credit hours earned—2.2, 60-74 credit hours earned—2.3, 75-89 credit hours earned—2.4, over 90 credit hours earned—2.6.

No student (major or nonmajor) may enroll in a 200 level course in the College of Business without having at least 45 credit hours earned toward a baccalaureate degree at the time of such enrollment. Business majors must also have completed all specified prerequisites prior to enrollment in a 200 or 300 level course in the College of Business.

Accounting

Chairperson: James A. Hallam, 435 Stevenson Hall.

Faculty: Professors: Hallam, Secoy, Tussing, Associate Professors: Carey, Chapman, Fish, Pirrong, Rozanski, Sieg, Assistant Professors: Behrens, Daroka, Hamilton, Holt, Kross, Krueger, Oman, Sands. Instructors: Bielfeldt, Duffy,

Falb, Garrison, Herdklotz, McKean, Oien, Rescho, Rundall, Toepke. Faculty Assistants: Rush, Stanford.

Accounting Programs

Degree Offered: B.S. Further Information: Department of Accounting. No teacher education program offered.

COMPREHENSIVE ACCOUNTING MAJOR

- 54 hours required in Business (ACC, BEA, FAL, MAM).*
- Required courses: ACC 131, 132, 230, 231, 232, 260, 333, 335. 9 hours chosen from among other upper division courses. BEA 215; FAL 110, 240; MAM 100, 220, 230, 285.
- 20 hours approved by department adviser including ECO 100 and 101; FAL 111; INF 110 and 227; MAT 121.

ECO 100, 101; FAL 111, INF 110, and MAT 121 should be completed as University Studies.

Repetition of Courses in Accounting: A student can register officially for an Accounting course only twice. That is, if a student completes a course, or drops a course after the official tenth day enrollment report, he or she may enroll officially in the same Accounting course only one additional time.

At least 42 hours outside the College of Business and in subject areas other than Business, Economics, and Administration must be included toward the 120 hours for graduation.

An Accounting major has the option to concentrate in financial accounting, management accounting, tax accounting or government accounting.

Business Information Systems Sequence: Students electing the Business Information Systems sequence must take ACC 266, 361, 362, and 366 in addition to the specific courses and other requirements listed in the comprehensive Accounting major. Students electing the Business Information Systems sequence should be aware that the total credit hours requirement will exceed 54 hours in Business.

*It should be noted that special prerequisites exist for many advanced courses in accounting. Majors should examine prerequisites carefully at the beginning of their academic careers since many of the advanced courses require a GPA or 2.5 or a grade of A or B in selected courses. GPA and grade prerequisites are effective with students entering the University under the 1976-77 catalog and are not retroactive.

MINOR IN ACCOUNTING

- 21 hours in Accounting required.
- Required courses: ACC 131, 132, 231, 232.
- 9 elective hours in ACC courses.

Accounting Courses

131 ELEMENTARY ACCOUNTING I
3 US-E F,S

132 ELEMENTARY ACCOUNTING II
3 US-E F,S
ACC 131.

160 COMPUTER PROGRAMMING FOR BUSINESS 3 F,S

High school algebra. Not for credit if had MAT 168.
FORTRAN and packaged programs for applications in business.

230 MANAGERIAL ACCOUNTING 3 F,S
ACC 132.

Discussion of product costing, planning and controlling routine operations, and analysis of non-routine decisions.

231 INTERMEDIATE ACCOUNTING 3 F,S
ACC 132.

Theory and procedures underlying income statement as report on operating performance and balance sheet as report on financial position.

232 ADVANCED ACCOUNTING 3 F,S
ACC 231.

Examination of theory and problems involved in accounting for stockholders' equity, funds flow, and consignment and installment sales.

260 BUSINESS DATA PROCESSING 3 F,S
ACC 131.

Data processing concepts and COBOL programming.

266 INTERMEDIATE COBOL 3 F,S
ACC 260 or equiv. Overall GPA of 2.5 or an A or B in ACC 260.

COBOL programming involving multiple file processing using both disk files and tape files, data usage, data categories, sort feature, perform verb, and table handling.

330 FUND ACCOUNTING 3 F,S
5 hrs. of ACC. Overall GPA of 2.5 or an A or B in ACC 231. ACC maj only.

Accounting applications to financial planning and control for non-profit institutions.

332 ADVANCED MANAGERIAL ACCOUNTING 3 S
ACC 230, 260, MAM 100 and MAT 121. Overall GPA of 2.5 or an A or B in ACC 230. ACC maj only.

Recent conceptual and analytical developments in the area of management accounting.

333 INCOME TAX PROCEDURE 3 F,S
ACC 131 or cons dept chrpn.

Emphasis on individual. Introduction to corporation and partnership.

334 ADVANCED TAX PROBLEMS 3 F,S
ACC 333 or cons dept chrpn. Overall GPA of 2.5 or an A or B in ACC 333.

Intensive examination of corporation, partnership, estate, trusts, and gift tax problems.

335 AUDITING 3 F,S
12 hrs of ACC. ACC maj only.

The CPA profession; auditors' opinion; evidence; internal control; auditing standards, programs, procedures and ethics, statistical sampling; working papers.

336 AUDITING PROBLEMS 3 F,S
ACC 335 or equiv. Overall GPA of 2.5 or an A or B in ACC 335. ACC maj only.

In-depth analysis of statistical samples, accountants' legal exposure, EDP in auditing, analysis of practical problems encountered by the public accountant in a variety of auditing situations.

337 ADVANCED ACCOUNTING PROBLEMS 3 F,S
ACC 232. Overall GPA of 2.5 or an A or B in ACC 231 and 232. ACC maj only.

Theory and problems involved in preparation and interpretation of consolidated statements, estates and trusts, and partnerships.

361 BUSINESS SYSTEMS ANALYSIS FOR COMPUTER PROGRAMMING 3 F,S
ACC 132 and ACC 160 or 260. Overall GPA of 2.5 or an A or B in ACC 160 or 260.

Introduction to systems analysis and design for business data processing.

362 ADVANCED BUSINESS SYSTEMS ANALYSIS 3 F,S
ACC 361. An A or B in ACC 361, or an overall GPA of 2.5, or cons dept chrpn.

Involves the development of a data processing system, including the development of input files, updating and file maintenance, and design and preparation of reports, and complete documentation of the data processing system.

366 ADVANCED BUSINESS DATA PROCESSING 3 F,S
ACC 266 or cons dept chrpn. Overall GPA of 2.5 or an A or B in ACC 266.

Advanced applications using disk systems, tape systems and operating systems as applied to business problems using COBOL.

367 COMPUTER APPLICATIONS FOR BUSINESS DECISION MAKING 3 F
9 hrs of ACC, including 160 or 260; 12 hrs FAL or MAM including MAM 100. Overall GPA of 2.5 or an A or B in ACC 160 or 260, or cons dept chrpn.

Dynamic mathematical techniques using accounting data to solve business problems. Linear programming, queueing-line problems, structure of business games, models.

368 BUSINESS SIMULATION 3 S
BUA 100, ACC 160 or equiv. Also offered as MAM 368.

Applications of computer simulation techniques to business problems. Emphasis on systems approach to model building, analysis, and interpretation.

375 PROFESSIONAL PROBLEMS 3 S
24 hrs of ACC including ACC 337. Overall GPA of 2.5 or an A or B in ACC 230, 231, 232, or cons dept chrpn.

An in-depth study of contemporary accounting problems with a strong orientation toward the preparation for the CPA examination.

398 PROFESSIONAL PRACTICE: INTERNSHIP IN ACCOUNTING 1-6 F,S
Senior, a 2.8 GPA in accounting courses, 2.6 overall GPA and cons inst.

On-the-job experience in one or more of the following areas: Public Accounting, Industrial Accounting, Governmental Accounting, Tax, and Business Data Processing.

Business Education and Administrative Services

Chairperson: Warren Perry, 435 Stevenson Hall.

Faculty: Professors: Kaisershot, Martin, Perry, Rich, Wray. Associate Professors: Alexander, Grever, Hall. Assistant Professors: Benjamin, Bickley, Jones, Kurth, Marcum, Palmer, Winchell. Instructors: Jackson, Knight, McHugh, Troman, Varner.

Business Education and Administrative Services Programs

Degrees Offered: B.A., B.S., B.S. in Ed. Further Information: Department of Business Education and Administrative

Services. Teacher education programs in Business Education, Distributive Education, and Secretarial Education. Non-teaching program in Office Administration. Students should also note that:

1. At least 42 semester hours of credit toward the bachelor's degree must be taken outside the College of Business and in subject areas other than Business, Economics, and Administration.

2. While an overall grade point average of 2.0 is required for graduation, majors in BEA teacher education programs must have earned a 2.2 GPA for admission to and retention in the University's teacher education program (see University-Wide Teacher Education Program Requirements in the College of Education section of the Catalog for further information).

Business Education Programs

COMPREHENSIVE BUSINESS EDUCATION MAJOR

- 55 hours required in Business (ACC, FAL, MAM, BEA).
- Required courses: ACC 131, 132, 260; FAL 110, 240; MAM 220, 230, 285; BEA 111, 114, 115, 117, 124 or 321, 211, 330, 361; and 6 hours selected from among BEA 390 and 392 or 394 and 396.
- Additional electives must be selected from ACC, FAL, MAM, and BEA courses.
- ECO 100 and 101 must be completed and ACC 131, 132, and FAL 110 may be completed as University Studies or general electives.

MAJOR IN GENERAL BUSINESS EDUCATION

- At least 37 hours required in Business (ACC, FAL, MAM, BEA).
- Required courses: ACC 131, 132, 260; FAL 110, 240; MAM 220, 230, 285; BEA 111, 114 or 321, 117, 330, 361, 390 or 392.
- ECO 100 and 101 must be completed and ACC 131, 132, and FAL 110 may be completed as University Studies or general electives.

MINOR IN BUSINESS EDUCATION

- 24 hours required in Business (ACC, FAL, MAM, BEA).
- Required courses: ACC 131, 132; MAM 220, 230; BEA 111, 114, 124 (or ACC 260) 390 or 392 or 394 or 396.

Consumer Education Program

MINOR IN CONSUMER EDUCATION

- 24-26 hours required from listed courses in BEA, FAL, MAM, HEC.
- Required courses: BEA 111, 117, BEA 330 or HEC 330 or HEC 297, BEA 340, BEA 392 or HEC 203, FAL 110, MAM 230, 331. Appropriate courses and workshops may be substituted for required courses with the approval of the department chairperson, as, for example, HEC 389 (Utilization of Consumer Education Materials), and HEC 389 (Utilizing Community Consumer Resources).
- It is recommended that students enrolled in this minor complete ECO 100 and 101 as part of University Studies or general electives. Students should be aware that several of the required courses have prerequisites which may be taken as part of the student's University Studies program.

Distributive Education Program

COMPREHENSIVE DISTRIBUTIVE EDUCATION MAJOR

- 55 hours required in Business (ACC, FAL, MAM, BEA).
- Required courses: ACC 131, 132, 260 (or BEA 321); FAL 110, 240; MAM 220, 230, 233, 234, 285; BEA 111, 117, 330, 361, 380, 381, 382, 383.
- Additional electives must be selected from ACC, FAL, MAM, and BEA courses.
- ECO 100 and 101 must be completed and ACC 131, 132, and FAL 110 may be completed as University Studies or general electives.

Students meeting the state occupational experiences requirement of one year of successful full-time employment in distributive occupations, or a minimum of 2,000 clock hours of approved work in the distributive field, may request that other courses in Business be substituted for BEA 381.

Secretarial Education Program

MAJOR IN SECRETARIAL EDUCATION

- At least 37 hours required in Business (ACC, FAL, MAM, BEA).
- Required courses: ACC 131, 132, 260; FAL 110, 240; MAM 220, 230, 285; BEA 111, 114, 124, 211, 361, 394 or 396.
- ECO 100 and 101 must be completed and ACC 131, 132, and FAL 110 may be completed as University Studies or general electives.

Office Administration Programs

COMPREHENSIVE OFFICE ADMINISTRATION MAJOR

- 54 hours required in Business (ACC, FAL, MAM, BEA) or other areas specified below.
- Required courses: ACC 131, 132, 260; FAL 110, 240; MAM 100, 220, 230, 285; BEA 111, 113, 115, 117, 124 (or ACC 361), 211, 215, 250, 270. ACC 131, 132, and FAL 110 may be completed as University Studies, ECO 100 and 101 and MAT 110 or 120 must be completed as either University Studies or as electives beyond the 54 hours required above.

An unclassified student or Office Administration major may select courses which will prepare the student for office occupations. Specific information is available in the Department of Business Education and Administrative Services. Unclassified students who are later admitted to a degree program may apply the courses listed above and taken while they were unclassified students toward graduation.

Business Information Systems Sequence: Students electing the Business Information Systems sequence, in addition to the requirements for the Comprehensive Office Administration major, must take ACC 266 and 361, BEA 321, and one course selected from ACC 362, 366, 389 (Data Processing Center Operations), 389 (Business Simulations), or MAM 389 (Management Information Systems). Students electing the Business Information Systems sequence should be aware that the total credit hour requirement will exceed 54 hours in Business.

MINOR IN OFFICE ADMINISTRATION

- 24 hours required in Business (ACC, FAL, MAM, BEA) or other areas specified below.
- Required courses: BEA 115, 211, 215, 250, 270; MAM 220, 221 or 323 or PSY 230; ACC 260. Students should

be aware that several of these courses have prerequisites which may be taken as part of the student's University Studies program (ECO 100 and 101 are prerequisites for MAM 220, and ACC 131 is a prerequisite for ACC 260; ECO 100, 101, and ACC 131 may be completed as part of the student's University Studies program).

Business Education and Administrative Services Courses

111 BUSINESS AND ITS ENVIRONMENT 3 US-E F,S

Influence of economic, social, and political pressures on business systems and operating procedures including markets, organization, management, and government regulation of business.

112 TYPEWRITING 2 US-E F,S

Mastery of keyboard; building speed and accuracy; production of letters, tables, manuscripts, reports, and other office communication forms.

113 OFFICE PRODUCTION TYPEWRITING 3 F,S

BEA 112 or cons inst.

Intensive building of speed and control with special emphasis placed on job simulation in all aspects of typewritten office production work.

114 PROBLEMS IN OFFICE PRODUCTION TYPEWRITING 3 F,S

BEA 113 or cons inst.

Instruction in specialized typewriting problems to develop high-level competency. Instructional methods for prospective business teachers included.

115 BUSINESS COMMUNICATIONS 3 US-A F,S

ENG 101 or equiv.

Analysis of communications practices in business. Skills will be improved through solution of practical business situations.

117 BUSINESS MATHEMATICS 3 F,S

Quantitative techniques used in solving business problems including percent, interest, the mathematics of merchandising, linear programming, break-even analysis, and inventory control.

122 PRINCIPLES OF SHORTHAND I 3 F,S

BEA 112 or cons inst. Shorthand laboratory work required.

Gregg shorthand theory, dictation, and related knowledges.

123 PRINCIPLES OF SHORTHAND II 3 F,S

BEA 122 or cons inst. Shorthand laboratory work required.

Continued study of Gregg shorthand emphasizing vocabulary development, dictation, and transcription.

124 ADVANCED SHORTHAND TRANSCRIPTION 3 F,S

BEA 123 or cons inst. Shorthand laboratory work required.

Dictation and transcription; emphasis on vocabulary building, dictation, English studies, and mailable transcriptions. Instructional methods included.

211 OFFICE SYSTEMS 3 F,S

BEA 113 or cons inst.

Critical evaluation of machines, including the computer,

and operating procedures used to process data in the office.

215 REPORT WRITING FOR BUSINESS 3 F,S

ENG 101 or equiv.

Report writing techniques; use, form, and structure of different types of business reports.

250 RECORDS MANAGEMENT 3 F,S

Organization and management of records system including use of microfilm and computerization of records.

270 PRINCIPLES OF OFFICE ADMINISTRATION 3 F,S

Analysis of office functions and relationship to business organization; information handling and data processing; office design and layout; responsibilities of office administrators.

320 PRACTICUM IN OFFICE PRACTICE INSTRUCTION 2-3

BEA 211.

For business education teachers teaching office machines or teaching in office education programs.

321 PRACTICUM IN DATA PROCESSING 2-3 F,S

ACC 260. Formerly PRACTICUM IN DATA PROCESSING INSTRUCTION.

Application of concepts and skills learned in the classroom to on-the-job data processing applications relative to office systems.

330 DECISION-MAKING FOR CONSUMERS 3 US-E F,S

Also offered as HEC 330. Materials charge.

Survey of consumer problems, trends, and information. Topics include: insurance, housing, credit, life-styles, consumer protection, leisure, and achieving financial security.

340 SOCIAL CONTEXT OF CONSUMER EDUCATION 3 F,S

BEA 330 or HEC 330 or HEC 297 and jr standing.

An analysis of the position of consumer education within the social system. The course will examine the institutional framework within which consumers function.

361 FOUNDATIONS OF BUSINESS EDUCATION 3 F,S

Historical background and current status of business education emphasizing professional responsibilities of teachers and principles of curriculum construction.

380 ORGANIZATION AND ADMINISTRATION OF VOCATIONAL COOPERATIVE EDUCATION PROGRAMS 3 F,S

Formerly ORGANIZATION AND ADMINISTRATION OF VOCATIONAL OFFICE AND DISTRIBUTIVE EDUCATION PROGRAMS.

Planning and organizing a cooperative program; emphasis on recruitment, selection of training stations, student placement, and operation of cooperative plan.

381 DIRECTED OCCUPATIONAL EXPERIENCES FOR OFFICE AND DISTRIBUTIVE EDUCATION 1-4

Designed to provide approved on-the-job experiences for credit toward the occupational experience required of office and distributive education coordinators and in-school instructors. Amount of credit to be earned will be determined by previous work experience.

382 COORDINATION TECHNIQUES OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS 3 S

Formerly COORDINATION TECHNIQUES OF COOPERATIVE OFFICE AND DISTRIBUTIVE EDUCATION PROGRAMS.

Coordination techniques needed for high school and post-secondary teacher coordinators in integrating classroom activities with daily employment.

383 INDIVIDUALIZED INSTRUCTION TECHNIQUES IN VOCATIONAL OFFICE AND DISTRIBUTIVE EDUCATION 3

Individualized instructional methods for teaching high school cooperative classes in office and distributive education.

390 IMPROVEMENT OF INSTRUCTION IN BOOKKEEPING AND ACCOUNTING 3 F,S

Methods of instruction, materials, organization, and presentation of subject matter utilized in teaching of bookkeeping and accounting.

392 IMPROVEMENT OF INSTRUCTION IN BASIC BUSINESS AND CONSUMER EDUCATION 3 F,S

Methods of instruction, materials, organization, and presentation of subject matter utilized in teaching basic business and consumer education.

394 IMPROVEMENT OF INSTRUCTION IN TYPEWRITING AND OFFICE PRACTICE 3 F,S

Instructional methods in teaching personal typewriting, vocational typewriting, and clerical office practice.

396 IMPROVEMENT OF INSTRUCTION IN SHORTHAND AND SECRETARIAL PRACTICE 3 F,S

Instructional methods in teaching shorthand, transcription, and secretarial office practice.

398 PROFESSIONAL PRACTICE: INTERNSHIP IN OFFICE ADMINISTRATION 1-14 F,S

Office Administration maj, sr standing, 2.5 GPA in business courses, 2.2 overall GPA, and cons internship coord. Enrollment for two consecutive semesters req to receive 14 credit hrs.

On-the-job experience involving planning, organizing, and directing work activities; developing controls to assure compliance with policies and procedures in the various areas of office administration.

Finance and Law

Chairperson: Thomas B. Martin, 351 Stevenson Hall.

Faculty: Professors: Ficek, Martin. Associate Professors: Crepas, Kruse, Meador, Potter, Shin. Assistant Professors: Gallagher, Hirt, Kellner, Maani, Massin, Naidu, Shlens, Varner, Wort. Instructors: Bayston, Bubnys, Carlon, Childers, Dean, Dunn, Hicks, Kiesewetter, McReynolds, Miller, Nelson, Olson, Otto, Riker, Scott, Smith, Vemuri, Ward, Weintraub, Whitlow, Witte. Lecturer: Hoiu. Faculty Assistant: Severino.

Finance Program

Degree Offered: B.S. Further Information: Department of Finance and Law. Two sequences are available: General Finance and Insurance. No teacher education program available.

COMPREHENSIVE FINANCE MAJOR

General Finance Sequence: 54 hours required in Business (FAL, ACC, BEA, MAM). Required courses (45 hours in FAL, ACC, BEA, MAM): MAM100; FAL110, 217, 240, 241, 242, 349; ACC 131, 132, 160; BEA 215; MAM 220, 227, 230, 285. In addition, ECO 100, 101, and MAT 121 or equivalent must be completed either as University Studies or as general electives. Elective courses (9 hours): 9 hours selected from among FAL 260, 341, 343, 344, 351, 352, 354, or appropriate courses from other departments, or approved by faculty Finance adviser.

Insurance Sequence: 54 hours required in Business (FAL, ACC, BEA, MAM). Required courses (54 hours): MAM 100, FAL 110, 217, 240, 241, 242, 349, 351, 352, 354; ACC 131, 132, 160; BEA 215; MAM 220, 227, 230, 285. In addition, ECO 100, 101, and MAT 121 or equivalent must be completed either as University Studies or as general electives.

At least 24 of the 54 hours required for the major must be taken in residence at Illinois State University. The senior year's work (last 30 hours), with minor exceptions, must be taken in residence at Illinois State University. At least 42 of the total 120 hours offered for graduation must be taken in courses other than Business (FAL, ACC, BEA, MAM), Economics, and Administration.

Business Administration Programs

Degree Offered: B.S. Further Information: Department of Finance and Law. No teacher education program available.

COMPREHENSIVE BUSINESS ADMINISTRATION MAJOR

- 54 hours required in Business (FAL, ACC, BEA, MAM).
- Required courses (33 hours in FAL, ACC, BEA, MAM): MAM 100, FAL 110, 240; ACC 131, 132, 160; BEA 215; MAM 220, 227, 230, 285. In addition, ECO 100 and 101 and MAT 121 or equivalent must be completed as either University Studies or as general electives. Fifteen (15) of these 33 hours must be taken in residence at Illinois State University.
- Elective courses (21 hours) from among FAL, ACC or MAM courses. FAL 140 may *not* be included. Students should consult with a department adviser in selecting electives.
- The senior year's work (last 30 hours), with minor exceptions, must be taken in residence at Illinois State University.
- At least 42 hours outside the College of Business and in subject areas other than Business, Economics, and Administration must be included toward the 120 hours for graduation.

Business Information Systems Sequence: Students electing the Business Information Systems sequence must take ACC 260, 266, 361, 362, and 366 in addition to completing all of the requirements for the Comprehensive in Business Administration Major.

Community college students who expect to major in Business Administration at Illinois State should consult the academic adviser of the Department of Finance and Law at ISU near the end of their freshman year.

MINOR IN BUSINESS ADMINISTRATION

- 20 hours required in Business (FAL, ACC, and MAM).
- Required courses: FAL 110, 240; ACC 131; MAM 220, 230.
- 5 hours selected from ACC 132, the data processing courses offered in Accounting and those FAL and MAM

courses available for credit to Business Administration majors.

Finance and Law Courses

110 BUSINESS LAW I 3 US-E F.S

Soph standing rec. Formerly BUA 110.

Business law and the legal process. Institutional jurisprudential, and historical aspects of law and legal systems. Contracts, agency, bailments and carriers, sales and secured transactions.

111 BUSINESS LAW II 3 US-E F.S

FAL 110. Formerly BUA 111.

Study of commercial paper, corporations, partnerships, bankruptcy, and property. Trusts and wills covered as time permits.

140 PERSONAL FINANCE 3 US-E F.S

Not for credit maj min in the College of Business. Formerly BUA 140.

Examines key financial decisions made by individual consumer. Career selection, personal record keeping, budgeting, use of credit, insurance, income taxes, and investment.

217 ECONOMICS OF BUSINESS 3 F.S

ECO 101, ACC 131, MAM 100 or cons inst. Formerly BUA 271 (1974-75 Catalog) and BUA 217.

Application of economic theory and quantitative tools to analyze and solve business problems. Emphasis on the decision process and the role economic analysis plays.

240 BUSINESS FINANCE 3 F.S

MAM 100, ACC 132 and ECO 101. Formerly BUA 240.

Principles and problems of planning and managing assets of business. Formulation, acquisition and utilization of funds and capital structure examination.

241 FINANCIAL INSTITUTIONS 3 F.S

Formerly BUA 241.

Structure and functions, sources of funds, and investment policies of private and governmental financial institutions.

242 INVESTMENTS 3 F.S

FAL 240. Formerly BUA 342 (1976-77 Catalog) and BUA 242.

A survey of investment media, concepts, and techniques to provide an understanding of the investment process in the economic and financial environment.

260 REAL ESTATE 3 F.S

Formerly BUA 260.

Principles of real estate, including real estate law, property description and transfer, appraisal, investments, leases, salesperson's and broker's functions, future social and economic implications for real estate.

310 BUSINESS IN A LEGAL ENVIRONMENT 3 F

FAL 110 or cons inst. Formerly BUA 310.

Economic, business and social values or forces which cause law related to business activities to change and adapt.

311 GOVERNMENT REGULATION OF BUSINESS 3 F.S

ECO 101. Formerly BUA 311.

Rules and regulation of mergers, monopolies, pricing, advertising, securities, food and drugs, unfair trade practices, utilities, and transportation.

341 CAPITAL INVESTMENT DECISIONS 3 F

FAL 240. Bus maj only. Formerly BUA 341.

Theory of capital management, evaluation of risks, determination of capital structures, measure of costs and returns, and allocation of capital.

343 SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT 3 F.S

FAL 240. Bus maj only. Formerly BUA 343.

Characteristics of financial assets and markets; evaluation of securities; selecting and combining securities into portfolios; portfolio models and measurement of portfolio performance.

344 INTERNATIONAL FINANCE 3 F

FAL 240. Bus maj only. Formerly BUA 344.

Financial management of multinational corporations, including balance of payments, foreign exchange markets and international money and capital markets.

349 ADVANCED FINANCIAL THEORY AND PROBLEMS 3 F.S

FAL 240. Not for graduate credit for MBA students.

An advanced coverage of financial theory and its applications to cases and problems. Specific area of emphasis varies according to the interests of students and faculty involved.

351 LIFE AND HEALTH INSURANCE 3 F.S

MAM 100; FAL 110. Formerly BUA 351.

Personal and business risks. Principles of life and health insurance and their applications.

352 PROPERTY AND LIABILITY INSURANCE 3 F.S

MAM 100; FAL 110. Formerly BUA 352.

Application to individuals, business enterprises, and governmental institutions. General consideration of risk in fire, marine, bond, and casualty areas.

354 RISK MANAGEMENT 3 F.S

FAL 352. Bus maj only. Formerly BUA 354.

Management's role in treating non-speculative risks to which business is exposed. Emphasis on recognition, evaluation, and treatment of risks.

398 PROFESSIONAL PRACTICE: BUSINESS ADMINISTRATION OF FINANCE INTERNSHIP 1-6

Formerly BUA 398.

Management and Marketing

Chairperson: George J. Brabb, 439 Stevenson Hall.

Faculty: Professors: Brabb, Couch, Eggert, F. Harrison, Mitchell, Mohr, Patterson. Associate Professors: Abdel-Halim, Eckrich, Ferrell, Fritzsche, Grimm, Kerber, Robinson. Assistant Professors: Bibb, Brubeck, M. Harrison, Joseph, Kauffold, Krugman, Lewis, Marlow, Nowak, Smith, Summers. Instructors: Bailey, Braden, Coffey, Fuerst, Madson, Nierstheimer, Ryan, Shankle, Stark. Lecturer: Kehias.

Management and Marketing Programs

Degrees Offered: B.S. in Management and Marketing. Further information: Department of Management and Marketing. No teacher education program available.

COMPREHENSIVE MANAGEMENT MAJOR

— 54 hours required. At least 24 of the required hours in each sequence at the 200 and 300 level must be taken

Management and Marketing Courses

100 BUSINESS AND ECONOMICS

STATISTICS 3 F,S
MAT 110 or 120. Not for credit if had ECO 131.
Formerly BUA 100.

Application of statistical methods to business. Averages, dispersion, probability theory, frequency distributions, inference, hypothesis testing, regression, nonparametric tests.

220 BUSINESS ORGANIZATION AND MANAGEMENT 3 F,S

ECO 101. Formerly BUA 220.

Organization theories and the role of managers as leaders. Planning and control systems, decision-making, and human considerations.

221 ORGANIZATIONAL BEHAVIOR AND ADMINISTRATION 3 F,S

MAM 220. Formerly BUA 321 (1973-74 Catalog) and BUA 221. Not for credit if had PSY 376 or BUA or MAM 421.

Organization analysis focusing on motivation, perception, communication, coordination, and change. Administrative problems examined by theories of individual and group behavior.

227 PRODUCTION MANAGEMENT 3 F,S

MAM 100, 220. Formerly BUA 227.

Operations of production plants. Methods analysis and work measurement, inventory control, quality control, facilities layout, machines and maintenance.

230 BASIC MARKETING 3 F,S

ECO 101 or FAL 217. Formerly BUA 230.

A managerial approach to the study of concepts, activities, and decisions that relate to the facilitation of exchange between buyers and sellers in both business and nonbusiness organizations.

231 CONSUMER BEHAVIOR 3 F,S

MAM 100, 230. Formerly BUA 331.

Determinants of consumer behavior. Influence of sociopsychological variables on the formation and change of attitudes, consumption, and purchasing behavior.

232 MARKETING RESEARCH 3 F,S

MAM 100, 230. Formerly BUA 332.

The role of research in marketing decision making and the systematic steps involved in conducting a marketing research project.

233 ADVERTISING 3 F,S

MAM 230, 231 or conc reg, 232 or conc reg or cons inst for non-maj. Formerly BUA 233.

Principles of advertising as explained from a business and consumer point of view. Emphasis on advertising as a factor in marketing.

234 PROFESSIONAL SELLING 3 F,S

MAM 230, 231 or conc reg, 232 or conc reg or cons inst for non-maj. Formerly BUA 234.

To describe personal selling as a marketing activity and to cover effective selling methods. Application of selling theories to the marketing concept.

235 MARKETING CHANNELS 3 F,S

MAM 230, 231, or conc reg, 232 or conc reg. Formerly BUA 231.

Theoretical concepts of marketing channel structure and management and their practical applications.

in residence at Illinois State University.
 Required courses (36 hours in MAM, ACC, BEA, FAL): MAM 100, 220, 221, 227, 230, 285, 301; ACC 131, 132; BEA 215; FAL 110, 240. In addition, ECO 100, 101, and MAT 121 or equivalent must be completed as either University Studies or as general electives.
 Additional required courses (depends on sequence chosen).
 Elective courses (depends on sequence chosen).
 The senior year's work, with minor exceptions, must be taken in residence at Illinois State University.
 At least 42 hours of the total 120 hours offered for graduation should be in courses other than Business (ACC, BEA, FAL, MAM), Economics, and Administration.

Organizational Management Sequence: 54 hours required. At least 24 of the required hours at the 200 and 300 level must be taken in residence at Illinois State University. Required courses (45 hours in MAM, ACC, BEA, FAL): MAM 100, 220, 221, 227, 230, 285, 301, 323, 325; ACC 131, 132, 160; BEA 215; FAL 110, 240. In addition, ECO 100, 101, and MAT 121 (or equivalent) must be completed either as University Studies or as general electives. Elective courses (9 hours) selected from: MAM 324, 326, 398; ACC 320, 325, 326; FAL 217 or ECO 339; FAL 311; INF 227, 329; PSY 365.

Operations Management Sequence: 54 hours required. At least 24 of the required hours at the 200 and 300 level must be taken in residence at Illinois State University. Required courses (45 hours in MAM, ACC, BEA, FAL): MAM 100, 220, 221, 227, 230, 285, 301, 327; ACC 131, 132, 160, 230; BEA 215; FAL 110, 240. In addition, ECO 100, 101, and MAT 121 (or equivalent) must be completed either as University Studies or as general electives. Elective courses (9 hours) selected from MAM 323, 326, 329, 368, 398; ACC 332; ECO 333; FAL 217 or ECO 339; FAL 311.

Management Information Systems Sequence: 54 hours required. At least 24 of the required hours at the 200 and 300 level must be taken in residence at Illinois State University. Required courses (48 hours in MAM, ACC, BEA, FAL): MAM 100, 220, 221, 227, 230, 232, 285, 301, 327; ACC 131, 132, 160 or 260, 361; BEA 215; FAL 110, 240. 6 hours of electives selected from MAM 325, 368, 389 (Management Information Systems), 398; ACC 362.

COMPREHENSIVE MARKETING MAJOR

54 hours required in Business (MAM, ACC, BEA, FAL).
 Required courses (45 hours in MAM, ACC, BEA, FAL): MAM 100, 220, 227, 230, 231, 232, 285, 338, 339; ACC 131, 132, 160 or 260; BEA 215; FAL 110, 240. In addition, ECO 100 and 101 and MAT 121 (or equivalent) must be completed as either University Studies or as general electives. Twenty-four of these 45 hours must be taken in residence at Illinois State University.
 Elective courses (9 hours) selected from MAM 233, 234, 235, 238, 289 (Promotion Strategy), 289 (Product and Price Strategy), 329, 333, 334, 335. In addition, the student may elect to use one of the following courses: GEO 330, 336; POS 232, 312; SOA 260, 267, as part of the 9 hours of electives above. In no event will more than 3 hours of electives be outside the Management and Marketing Department. The student may also want to consider GEO 150 and SOA 131 as useful University Studies electives.

- 238 INTERNATIONAL MARKETING 3 S**
MAM 230, 231, or conc reg, 232 or conc reg. Formerly BUA 336.

Understanding the marketing environment and developing marketing strategies across national boundaries. The political, economic, and cultural variables which influence such strategies are identified. Recent cross-cultural research and real world cases clarify concepts and their application.

- 285 PROBLEMS IN BUSINESS 3 F,S**
MAM 100, 220, 230, ACC 132, FAL 240, Senior status. Bus maj only. Formerly BUA 285.

Integration of the decision-making processes involved in each of the major functional areas of business.

- 301 DECISION THEORY 3 F,S**
MAM 100. Formerly BUA 301.

Behavioral and quantitative factors in business decision-making. Emphasis on quantitative methods of making decisions under conditions of uncertainty.

- 323 HUMAN RESOURCES MANAGEMENT 3 F,S**
MAM 220. Formerly BUA 323.

Principles and procedures relating to manpower management, including staffing, appraisal, training, compensation, and other programs for business and other organizations.

- 324 INDUSTRIAL RELATIONS MANAGEMENT 3 F,S**
MAM 220, ECO 100. Formerly BUA 324.

Managing employment relations and work conditions. Emphasis on negotiating, administering labor agreements, and impact of collective bargaining on managerial practice.

- 325 MANAGERIAL DECISION MAKING 3 F,S**
MAM 220 or cons inst. Bus maj only. Formerly BUA 325.

Treats decision making in the context of an interdisciplinary, interrelated process based on a solid foundation of managerial planning.

- 326 SMALL BUSINESS MANAGEMENT 3 F,S**
2.0 GPA in a Business maj; sr. or grad standing in Business. Bus maj only. Formerly BUA 326.

Field program designed to familiarize the student with the problems of small business owners and/or operators. The student acquires firsthand knowledge and experience by dealing with on-going businesses.

- 327 OPERATIONS MANAGEMENT 3 F,S**
MAM 227. Formerly BUA 327.

Advanced consideration of decision-making tools applied to manufacturing and other operational areas. Case analyses place emphasis on production management problems.

- 329 PURCHASING POLICIES AND PROCEDURES 3 S**
ECO 100, ACC 131, or cons inst. Formerly BUA 329.

Purchase of materials, supplies, and equipment for industry, government, and other institutions. Organization for purchasing, internal requisitioning, and stock control.

- 333 ADVERTISING MANAGEMENT 3 F,S**
MAM 230, 231, 232, 233. Formerly BUA 232.

The course emphasizes the major perspectives in advertising practice along with the techniques of behavioral and management sciences. Case studies are used with project reports.

- 334 SALES MANAGEMENT 3 F,S**
MAM 230, 231, 232, suggest MAM 234. Formerly BUA 236.

Application of functions of management to selling structure and sales problems of companies. Behavioral and quantitative disciplines used in case studies.

- 335 RETAILING MANAGEMENT AND PROMOTION 3 F,S**
MAM 230, 231, 232, suggest MAM 235. Formerly BUA 235.

Management and operation of retail firms. Emphasis will be on location, pricing, inventory and promotion.

- 338 MARKETING MANAGEMENT 3 F,S**
MAM 230, 231, 232. Not for graduate credit for MBA students. Bus maj only. Formerly BUA 339.

Development and evaluation of the marketing plan. Includes analysis of actual and hypothetical cases. A term project will be included.

- 339 SEMINAR IN MARKETING 3 F,S**
MAM 230, 231, 232, 338 or conc reg or cons inst. May be repeated once if topic and inst different. Bus maj only.

A specialized study of selected topics in the field of marketing for advanced students.

- 368 BUSINESS SIMULATION 3 S**
MAM 100, ACC 160 or equiv. Also offered as ACC 368. Formerly BUA 368.

Applications of computer simulation techniques to business problems. Emphasis on systems approach to model building, analysis, and interpretation.

- 398 PROFESSIONAL PRACTICE: INTERNSHIP IN MANAGEMENT AND MARKETING 1-6**

College of Education

Dean: Robert Burnham, 533 DeGarmo Hall.

The College of Education is in the process of reorganization and is expected to include the Departments of Curriculum and Instruction, Specialized Educational Development, Educational Administration and Foundations, the Office of Clinical Experiences and Certification Processes, and the Office of Research, Development, and Field Services. The College of Education has three broad missions: (1) Vigorous preparation of quality instructional, supervisory, and administrative personnel to serve in all sectors of the economy in various capacities and at all levels of teaching and learning; (2) Systematic study, research and evaluation of societal concerns within diverse cultural contexts and with the concomitant utilization of that research for society's benefit; and (3) Active involvement in service activities designed to improve the quality of life through education and to ensure the necessity of existing programs and to identify new directions for the College. The College administers clinical experiences in education and an admission-retention program in undergraduate teacher education in addition to offering a wide range of graduate programs, including doctoral programs in Educational Administration, Curriculum and Instruction, and Special Education.

Curriculum and Instruction

Chairperson: Ronald L. Laymon, 232 DeGarmo Hall.

Faculty: Professors: Belshe, Berson, Bjork, Blankenship, Bowren, Bunke, Cantlon, Crotts, Eastman, C. Edwards, T. Edwards, Eiben, Ewing, Frinsko, Goeldi, Goodall, Greif, Halinski, Hicklin, Huser, Irving, Kennedy, Lewis, Livers, Madore, Meyering, Miller, Pierce, Rhodes, Schnepf, Slan, Waimon, Zeller. Associate Professors: Brown, Brubaker, Clack, Conyne, Fisher, Fitch, Graef, Heath, Hrudka, H. Jones, Kachur, Lazerson, Lorber, Milliren, Sherman, Stern, Venerable, Youngs. Assistant Professors: Aden, Baer, Baker, Barchi-McBroom, Bettis, Bray, Cochran, Coe, Curtino, Farmer, Feicke, Francis, Franks, Galler, Hager, Howard, A. Jones, Kerber, McCarthy, Mincey, Moreland, Morris, Mungo, Natale, Nelson, Peterson, Rapin, Rozum, Schultz, Short, Smith, Taylor, Wallace, P. White. Instructors: Austensen, DeGrandpre, Torres, R. White. Faculty Associates: Jackson, Rademacher. Faculty Assistant: Crumley.

Early Childhood Education Programs

Degrees Offered: B.A., B.S., B.S. in Ed. Further Information: Department of Curriculum and Instruction. Teacher education program.

Since it is anticipated that more students will desire admission to Early Childhood Education than the program can accommodate, students are admitted on a selective basis. Specific information on admissions policies and practices is available from the Department of Curriculum and Instruction. Most professional coursework is taken through Core units. This work is ordinarily started during the second semester of the sophomore year or the first semester of the junior year. Each Core unit is for an entire semester and is a unified program of classroom experiences taught by a team of instructors from C&I and other departments. Each Core covers a common content: knowledge about physical cognitive, social, and creative development of children; knowledge about school curriculum and organization; and direct teaching experience with young children. The final semester is spent off campus in a Clinical Center which

provides a wide variety of direct experiences with children. Concurrently with each Core, students will take some of the additional required courses.

COMPREHENSIVE EARLY CHILDHOOD EDUCATION MAJOR

- University Studies Requirements: ENG 101, INF 110, HEC 106, PSY 111, and PAS 115 are required to be completed as part of the 42-hour University Studies requirement for graduation. In addition, an ECE major should include courses in the following areas of University Studies to meet ECE certification standards: 9 hours in Language Arts, 7 hours in Science, 7 hours in Social Sciences including a course in American History or Government, 6 hours in Humanities, including work in Music and Art, and 3 hours in Health and Physical Education.
- Required courses (51 hours): C&I 260 (9 hours), 261 (9 hours), 262 (9 hours), 263 (6 hours), 300, 301, 331, HEC 231; PSY 232, 347.

Electives in Early Childhood Education: In addition to courses required for the major and the coursework required for University Studies, the student will take general elective courses. A student in consultation with a departmental adviser, should select a sufficient number of electives so that the total amount of credit equals the 120 hours required for graduation. Electives may be selected from among the total catalog of courses, provided the student meets the prerequisite for the course and has the approval of an adviser. From these courses, a student might concentrate in a specific field of study, or might elect additional specialized professional courses in Elementary Education, Home Economics, Psychology, and Special Education. If a student elects to concentrate in a specific field of study, the student may take a minor or second major by following the appropriate program requirements as stated in this catalog. Students who wish to teach in Early Childhood Education reimbursable programs in the Illinois public schools should obtain this information as early as possible so that they can plan their programs to meet these requirements prior to completion of their programs.

MINOR IN EARLY CHILDHOOD EDUCATION

This minor is restricted to students who are Elementary Education or Special Education majors, or who are Home Economics Education or Psychology Education Majors.

- Required courses (22-28 hours) selected from among each of the following six areas.

1. 3 hours in Child Growth and Development selected from among C&I 210, HEC 250, PSY 112. Elementary Education majors who have had C&I 250, 251, and 252 are excused from this requirement.
2. 3 hours in History and Philosophy of Early Childhood Education, C&I 331.
3. 6 hours in Types of Instructional Methods and Management selected from among C&I 300, 301, HEC 308.
4. 2 or 4 hours in Health and Nutrition for the Young Child selected from HEC 106 or 196.
5. 3 or 4 hours in Child, Family, and Community Relationships selected from among C&I 347, HEC 194, 231, 307.
6. 5 to 8 hours of Practicum in a Pre-School Program in either C&I 263 (6 hours), or 399 (5 to 8 hours) in the above departments.

Elementary Education Programs

Degrees Offered: B.A., B.S., B.S. in Ed. Further Informa-

tion: Department of Curriculum and Instruction. Teacher education programs only.

COMPREHENSIVE ELEMENTARY EDUCATION MAJOR

There are two distinct sequences in Elementary Education, the Core Program and the Traditional Program. Students presently enrolled in the Traditional Program may continue in it. Other students, both entering freshmen and those new to Elementary Education, follow the Core Program.

The Core Program is recommended.

Core Program:

- 48 1/2 hours required.
- Required courses: C&I 102 (Continuing Seminar), from 3 to 5 semesters for a minimum of 1 1/2 and a maximum of 2 1/2 hours. C&I 250 (Core I — The Arts), 12 hours. C&I 251 (Core II — Communication Skills), 12 hours. C&I 252 (Core III — Natural and Social Sciences), 10 hours. C&I 253 (Clinical Center Practicum), 10 hours. C&I 231 or 228 or 235, 3 hours.

The student must take C&I 102, Continuing Seminar, at the beginning of the sophomore year and continue in it until student teaching. The purpose of the seminar is to provide the student with academic advisement and professional growth experiences. It will acquaint students with the academic policies and procedures of the University and assist them in making basic course selections to satisfy University Studies requirements, general education certification requirements and major requirements in professional education. It will help students to evaluate their own personal and social assets as well as to help them develop good interpersonal skills to make them as marketable as possible in teaching.

The formal coursework is taken through the Core units. This work is ordinarily started during the second semester of the sophomore year or the first semester of the junior year. Each Core unit is 10-12 hours of course work, and lasts for a semester. A Core is a unified program of course work and classroom experiences taught by a team of Elementary Education teachers and instructors from other departments. The Cores represent three major curriculum areas: Core I — the Arts, Core II — Communication Skills, and Core III — the Natural and Social Sciences. The student enrolls for these in sequence. Each core covers: (1) a common content, such as the Arts; (2) knowledge about the physical, cognitive, social and creative development of children; (3) knowledge about the school curriculum and organization; and (4) direct teaching experience with children. The final semester is spent off campus in a Clinical Center. This provides a wide variety of direct experience with children and adults in various socio-economic and ethnic groupings. Students also work with various community agencies as well as the elementary school. With one exception all major work is contained within the core units, but the students will be assisted in planning other coursework to fulfill the various degree requirements. The course requirement not contained in the Core is Curriculum and Instruction 231 or 228 or 235.

Traditional Program:

- 61 hours required, including 27 hours of Professional Requirements and 34 hours in one of three levels of elementary education or a combination of the three levels.
- 27 hours of Professional Requirements: C&I 210, 220, 231 or 228 or 235, 270 or 280 or 290 as appropriate to level, 298, 302, 399 (8 hours).
- 34 hours in one or a combination of the following three levels.

1. *Kindergarten-Primary*: ART 101 and 202; ENG 170 and 271; GEO 135; HPR 222; MAT 151 and 201; MUS 277 and 2 hours of Music electives from MUS 121, 122, 171, 270, or Applied Music courses; at least 5 hours of natural sciences electives from BSC, CHE, GEO, PHY courses or C&I 230; at least 3 hours of speech electives from among INF 242, PAS 112, 115, and THE 141, 232.
2. *Intermediate Grade*: ART 101 and 202; ENG 170 and 272; GEO 135; HPR 222; MAT 151 and 201; MUS 277 and 2 hours of electives from MUS 151, 152, 270, or Applied Music courses; at least 5 hours of natural sciences electives from BSC, CHE, GEO, PHY courses or C&I 230; at least 3 hours of speech electives from INF 223, 242, THE 141, 233.
3. *Upper Grade*: Requirements same as for Intermediate Grades *except* for the speech elective, which is: At least 3 hours of speech electives from INF 223, 242, 321, PAS 112, 115, 311, THE 141, 233.

Electives in Elementary Education: In addition to the courses required for the major in either the Core Program or Traditional Program and the course work required in University Studies, the student will have general elective courses to choose from. A student, in consultation with a departmental adviser, should select a sufficient number of electives so that the total amount of credit equals the requirements for graduation. Electives may be selected from the total catalog of courses provided the student meets the prerequisites for the course and has the approval of an adviser. From these courses, a student might concentrate in a specific field of study. If a student elects to concentrate in a specific field of study, the student may take a minor or second major by following the appropriate program requirements as stated in this catalog.

Bilingual/Bicultural Education: An Elementary Education major who completes the requirements for a B.S., B.A., or B.S. in Education degree and who completes the required courses listed below may be certified as an elementary school teacher with bilingual/bicultural endorsement. Of the two distinct sequences in Elementary Education, the Core Program is recommended. The additional required courses include:

- C&I 389 (Methods of Teaching Reading to Bilinguals) and 389 (Multilingualism in the School Setting).
- ENG 243 and two courses selected from among ENG 290, 341, and 389 (Teaching English as a Second Language).
- FOR (Spanish) 189 (Chicano Studies) and three courses selected from among FOR (Spanish) 218, 304, 385, and 389 (Spoken Regional Spanish).
- One HIS course selected from among HIS 261, 262, 289 (Chicano History), and 371.
- SOA 180.

Additional courses in Spanish may be required in order to obtain the required degree of bilingualism. Students also are encouraged strongly to take 6 hours in C&I 389 (Internship in Bilingual Education) and C&I 389 (Background and Current Status of Bilingual Education), or C&I 389 (Bilingual Program Design and Implementation). The Elementary Education major who desires a endorsement should consult the Director of Bilingual/Bicultural Education Program in the Department of Curriculum and Instruction for assistance in planning a program to meet the above requirements.

Junior High/Middle School Education Program

Degrees Offered: B.A., B.S., B.S. in Ed. Further Information: Department of Curriculum and Instruction. Teacher education program only.

COMPREHENSIVE JUNIOR HIGH/MIDDLE SCHOOL EDUCATION MAJOR

Professional Requirements:

- 27 hours in Professional Education required.
- Required courses: C&I 130, 131, 132, 228 or 231 or 235, 233, 306, 333, 390, 399 (8 hours of Student Teaching); PSY 302.

Specialization Requirements:

- Appropriate preparation in one or more areas of teaching specialization listed below is required.

The major in Junior High/Middle School Education, a program of professional development for those who wish to teach at the junior high/middle school level of education, consists of three broad areas of preparation. These are general education requirements listed in this catalog in the section on Teacher Education, professional education requirements listed above, and teaching areas of specialization requirements listed below. As the Junior High/Middle School major completes the general education requirements and teaching areas of specialization requirements, he or she should simultaneously meet the University Studies requirements listed in this catalog. The student satisfactorily completing this program will meet the State of Illinois requirements for Elementary certification (K-9). A large percentage of graduating majors in Junior High/Middle School Education may also qualify for the Standard High School Certificate (6-12).

An adviser in the Department of Curriculum and Instruction will assist the major in Junior High/Middle School Education plan coursework to develop competency in one or more teaching areas of specialization. Students in the ISU program may prepare themselves to teach in any of the subject areas of the junior high/middle school. These teaching areas of specialization, designed consistent with the instructional needs of junior high/middle school teachers, include: Language Arts-Reading, Social Studies, Science, Mathematics, Physical Education, Health, Home Economics, Industrial Arts, Art, Music, Reading, and Foreign Languages. The individual's work in the Language Arts-Reading, Social Studies, and Science will range from 36 to 56 hours depending upon whether the given field is the student's first or second subject area of specialization, or if it is the only area of specialization. In all other fields, preparation will consist of 18 to 38 semester hours' work, depending on whether the given field is the student's first or second area of specialization. Unlike preparation for senior high school teaching, that for the junior high/middle school demands broad preparation across the several disciplines which constitute a subject area at this level. To meet these broad field demands in their selected teaching areas, pre-service teachers in the Illinois State program are guided through coursework which is specifically attuned to the curriculum requirements of the junior high/middle school. Under advisement, a student may take a minor or second major by following the appropriate program requirements as stated in this catalog.

A primary feature of the Junior High/Middle School Program is the experience which the pre-service teacher gains in working with early adolescent youth in the school envi-

ronment. Simultaneous with the coursework in the categories described above, the student in the program engages in a variety of clinical experiences working with pupils in area junior high/middle schools. In fulfilling its strong commitment to early adolescent education, Illinois State University—one of only two universities in the State with programs for the special preparation of junior high/middle school teachers—works closely with these schools to provide maximal opportunities for majors in their development of teacher-pupil interaction skills. The prescribed and voluntary internship activity aids the student in making the transition from pre-service to in-service teaching much more effectively and expeditiously. This activity and the other features of this specialized program combine to provide a comprehensive and thorough undergraduate program for teachers as specialists at a school level where few exist. Standards for school recognition by the Illinois Office of Education relating to the qualifications of teachers as well as those for member schools of the North Central Association are met and considerably exceeded by the Junior High/Middle School Teacher Education Program at ISU.

MINOR IN READING EDUCATION

- 24 hours required, including 12 hours in Reading, 3 hours in Measurement, and 9 hours of Directed Electives.
- Required courses:
Reading (12 hours) including 3 hours selected from among C&I 200, 218, 220, or 251; 6 hours selected from among C&I 303, 306, 308, 350, 389 (Pre-First Grade Reading and Readiness), and SED 301; and 3 hours in C&I 307.
Measurement (3 hours) selected from among C&I 250-251-252, 387, or PSY 334.
Directed electives (12 hours) including 3 hours selected from among C&I 210, 250-251-252, PSY 112, 215, 301, 302; 3 hours selected from among ENG 241, 243, 245, 310, or 341; and an additional 3 hours selected by student with approval of faculty adviser from any of above listed courses.

Curriculum and Instruction Courses

102 CONTINUING SEMINAR 1/2 F.S.
Elementary education teaching maj only. May be repeated. Max 2 1/2 hours. Course is offered on a credit/no credit basis only.

Personal qualifications, attitudes and academic requirements for teaching. Instructor is student's adviser.

109 HELPING RELATIONSHIPS 3 US-A F.S.
Development of human relations skills used in interpersonal communication, includes 2 hours lecture and 2 hours laboratory.

130 INTRODUCTION TO EARLY ADOLESCENT EDUCATION 1 F.S.
Develops the distinctive role of early adolescent education in the public school, contrasted with elementary and senior high education.

131 THE EARLY ADOLESCENT IN THE SCHOOLS 1 S
C&I 130 or conc reg or cons inst.

Provides the early adolescent educator with an understanding of the unique characteristics of junior high/middle school pupils. A practicum experience is required.

132 THE TEACHER IN THE JUNIOR HIGH/MIDDLE SCHOOL 1 F
C&I 130, 131, or conc reg or cons inst.

Provides the early adolescent educator with an overview of the unique roles of early adolescent teacher behaviors in a classroom setting. A practicum experience is required.

200 PROFESSIONAL SEQUENCE 1-8 F,S

C&I 210 or PSY 215 or conc reg. Observations, participation and clinical teaching required. This sequence combines the elements of a series of courses — C&I 215, C&I 216, and C&I 218. A student who has earned credit in one or more of the courses registers for fewer than the 8 hour maximum. This self-instructional program may be taken over several semesters. Identified portions of the Sequence must be completed prior to student teaching. Students who do not complete all professional sequence work within a period of six academic semesters (excluding summers) may be required to demonstrate the competencies required in the current sequence program. Course is offered on a credit/no credit basis. One section may be designated for students who have completed all Professional Sequence requirements for student teaching.

Basic principles and techniques of teaching, developmental and remedial aspects of high school reading and organization and administration of American public education.

210 CHILD GROWTH AND DEVELOPMENT 3 F,S

PSY 111. No credit if in Elementary Education Core program. Not for credit if had PSY 112.

Physical, social, emotional and mental development of the child from conception through adolescence; methods of studying children and their behavior.

215 AMERICAN PUBLIC EDUCATION 2

Organization and administration of American public education — federal, state, county, and local.

216 SECONDARY EDUCATION 4

C&I 210 or PSY 215. Observations and/or participation required.

Basic principles and techniques of teaching; learning goals and their function, subject matter, assignment procedures, selection and use of various teaching aids, practice in unit and daily planning, guidance and discipline, using community resources, teacher-student planning, small-group techniques, and procedures for evaluating and reporting results.

217 EXTRACURRICULAR ACTIVITIES IN SECONDARY SCHOOLS 2

PSY 215.

Types of activities, aims and values, practices in organization, administration, and supervision of these activities.

218 SECONDARY-SCHOOL READING 2

No credit if reg in C&I 200. Students pursuing a reading minor should enroll in a designated section with the following prerequisites: ENG 241 or 243 or 245 or cons dept chrpn.

Developmental and remedial aspects of high school reading for senior and junior high school teachers, supervisors, and administrators.

220 READING METHODS 3 F,S

C&I 210 or PSY 215. No credit if in Elementary Education Core Program.

Instruction in, observation of, use of materials and techniques in teaching word recognition (including phonics), comprehension, and critical reading.

228 SOCIAL FOUNDATIONS 3 US-E F,S

Education as a social process and function, social origins of

contemporary educational problems.

230 PHYSICAL SCIENCES FOR ELEMENTARY TEACHERS 3 F,S

No credit if in Elementary Education Core Program.

Emphasis on "hands on" activities relevant to K-6 teachers to develop basic skills for inquiry teaching. Emphasis also on developing science concepts and skills in the physical sciences.

231 INTRODUCTION TO PHILOSOPHY OF EDUCATION 3 US-E F,S

Philosophical inquiry regarding educational problems, the nature of the educative process, and its institutionalization.

232 EDUCATION IN THE INNER CITY: AN INTRODUCTION 3 US-E F,S

Social, economic, and cultural forces that contribute to deprivation in urban areas; their specific relationship to education. Activities within the local community emphasized.

233 THE JUNIOR HIGH/MIDDLE SCHOOL AND AMERICAN EDUCATION 1 S

C&I 130, 131, 132, or conc reg or cons inst.

Survey of organizational structure of American public education; provisions for early adolescent education; teacher certification; qualifications and placement. Seminar experience required.

235 HISTORICAL FOUNDATIONS 3 US-E F,S

Inquiry into the historical context of contemporary educational issues. Emphasis on development of public education in the United States.

250 CORE I — THE ARTS 12 F,S

Elementary education teaching maj only. Materials charge.

Modern programs, materials, techniques of teaching art, creative drama and music, in elementary school. Child growth and curriculum.

251 CORE II — COMMUNICATION SKILLS 12 F,S

C&I 250. Materials charge. Admission to Teacher Education req.

Modern programs, materials, techniques of teaching reading, language arts and physical education in elementary school. Media development, construction of language learning projects and exploration of oral-aural classroom activities. Evaluation, measurement, child growth, and curriculum.

252 CORE III — NATURAL AND SOCIAL SCIENCES 10 F,S

C&I 251. Materials charge.

Modern programs, materials and techniques of teaching mathematics, science and social studies in elementary school. Emphasizes thinking skills. Students develop programs for a variety of classroom environments. Evaluation, measurement, and curriculum.

253 CORE IV — THE CLINICAL CENTER PRACTICUM 10 F,S

C&I 252.

Participation in a partnership among Illinois State University, public school districts, the teaching profession and child-related community agencies. Measurement. Supervised clinical experiences meet state certification requirement for student teaching.

260 CORE I — THE ARTS IN EARLY CHILDHOOD EDUCATION 9 S
Materials charge.

Modern programs, materials, techniques of teaching art, creative drama and music in ECE programs. Child growth and assessment. Participation experience required.

261 CORE II — COMMUNICATION SKILLS IN EARLY CHILDHOOD EDUCATION 9

C&I 260. Materials charge.

Modern programs, materials, techniques of teaching pre-reading, language arts and literature in ECE programs. Child growth, assessment, and curriculum. Participation experience required.

262 CORE III — NATURAL AND SOCIAL SCIENCES IN EARLY CHILDHOOD EDUCATION 9

C&I 261. Materials charge.

Modern programs, materials and techniques of teaching mathematics, science and social studies in ECE programs. Child growth, assessment and curriculum. Participation experience required.

263 CORE IV — THE CLINICAL CENTER PRACTICUM 6

C&I 262.

Participation in a partnership among Illinois State University, ECE programs, the teaching profession and child-related community agencies. Supervised clinical experiences meet state certification requirement for student teaching.

270 PRIMARY CURRICULUM 4 F,S

C&I 220 or conc reg. No credit if in Elementary Education Core Program.

Historical development of elementary curriculum, organizational patterns of elementary schools, classrooms, and instructional groups. Skill development in teacher planning and approaches to classroom management and teaching strategies and materials especially in language arts and social studies.

280 MIDDLE GRADE CURRICULUM 4 F,S

C&I 220 or conc reg. No credit if in Elementary Education Core Program.

Methods and materials in intermediate grades; language arts; arithmetic, science and social studies; instructional problems for teachers; selection, organization, and use of curriculum materials; the unified program of activities; pupil appraisal.

292 KINDERGARTEN EDUCATION 3 F,S

C&I 210 and 270, 280 or 290 or 251.

Principles and practices of planning, teaching, and evaluating kindergarten programs.

298 SENIOR SEMINAR IN ELEMENTARY EDUCATION 3 F,S

C&I 270, 280 or 290. No credit if in Elementary Education Core Program. One section may be designated for post-fieldbased SED maj only.

Seminar focused on developing professional articulation for education students of senior standing who plan to seek employment in the near future. Topics covered include: School & Society, The Employable Teacher, Parent Oriented Concerns, Law and Finance for Classroom Teachers as well as those of concern to participants. Emphasis is placed upon preparing the student for entry into the job market.

300 EDUCATION ROLE OF PLAY IN EARLY CHILDHOOD 3 F,S

Conc reg req in C&I 250 or junior standing.

Emphasizes the process of play and its relationship to personal and cognitive development during the first eight years of life. Historical and current theories of play. Participation experiences required.

301 PREKINDERGARTEN EDUCATION — PRINCIPLES AND PRACTICES 3 F,S

Principles and practices of planning, teaching, and evaluating prekindergarten programs. Emphasizes living-learning experiences, activities, materials, and equipment appropriate for children in prekindergarten environments. Participation experiences required.

302 PROSPECTUS IN ELEMENTARY EDUCATION 3 F,S

No credit if in Elementary Education Core Program.

The evolution of elementary education including its role in contemporary society.

303 PRACTICUM IN UNIVERSITY READING STUDY CENTER 3 F,S

C&I 218 or reading portion of 200 or 307 and cons inst. Six hours each week.

Observation and participation to provide skills necessary for working in a reading-study center in high school, junior college and senior college.

304 COLLOQUIUM: MUSIC, ART, AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL 3

306 READING DEVELOPMENT FOR EARLY ADOLESCENCE 3 F,S

One section may be designated for Junior High/Middle School maj only.

Provides the junior high/middle school person with knowledge, skills, and abilities to work with the developmental reading growth of early adolescents. A practicum experience is provided.

307 ADVANCED READING METHODS 3 F,S

C&I 220 or 251 or cons inst.

Practical problems utilizing group techniques in teaching reading in elementary classroom. Integrates reading with non-reading learning activities.

308 TEACHING ADULTS TO READ 3 S

One course in teaching of reading.

Nature and needs of the population of reading programs for adults. Goals, techniques, content, and materials.

309 ADULT EDUCATION PROGRAMS 3

Instruction, direction, and administration of public school adult education. The adult learner's needs and characteristics; facilities, staff, supervision and administration of adult education programs.

310 ELEMENTARY SCHOOL CURRICULUM 4 S

C&I 270, 280, or 290; or cons inst.

Conceptual and structural design of elementary school curriculum.

311 TEACHING IN URBAN ELEMENTARY SCHOOLS 3 F,S

Processes and effects of urbanization on elementary school children; adaptation of curriculum materials, techniques, procedures, and practices for teaching in urban elementary schools.

312 URBAN FIELD**EXPERIENCE 3 or 6 F,S**

An off-campus, community-based experience in urban schools, local community agencies and state and private institutions serving youth.

318 SCHOOL/COMMUNITY INVOLVEMENT 2-6

Conc reg req. C&I 253 and cons ctr director.

Direct involvement with community programs and agencies. Student assumes the role of a volunteer participant under the guidance and supervision of a professor and a designated agency representative.

324 SELECTED TOPICS IN THE HISTORY OF EDUCATION 1-3

C&I 335 or Upper-Level HIS crse or cons inst. May be repeated.

326 SELECTED TOPICS IN THE PHILOSOPHY OF EDUCATION 1-3 S

C&I 231 or Upper Level PHI crse or cons inst. May be repeated.

328 THE SCHOOL AS A SOCIAL INSTITUTION 3 US-E S

Completion of University Studies Group D requirements or cons inst.

Utilization of social scientific concepts in the study of education. Emphasis on organization and functions of the school as a social institution.

330 MAN AND THE ANALYSIS OF EDUCATION 3

Fundamental dimensions of foundational inquiry; historical, philosophical, social, and comparative foundations of education. Emphasis on relationship between selected views of man and their implications for education.

331 HISTORY AND PHILOSOPHY OF EARLY CHILDHOOD EDUCATION 3 F,S

C&I 300 or 301.

Emphasis given to major events and theories having an impact on Early Childhood Education in its contemporary form. Visitations required.

332 EDUCATION IN THE INNER CITY 3 F,S

C&I 270 or 280 or 290 or appropriate portion C&I 200. Field trips.

Problems of educating students living in inner city. Student characteristics, needed teacher skills and attitudes, instructional materials, techniques, school and community programs.

333 JUNIOR HIGH/MIDDLE SCHOOL 3 F,S

Formerly THE JUNIOR HIGH SCHOOL.

Philosophy, functions, curricula of early adolescent education as implemented in junior high/middle schools. Relationships between pupils' developmental characteristics, needs, and behaviors and development of school programs. Problems, issues, evaluation and accreditation of junior high/middle schools.

335 HISTORY OF EDUCATION 3 S

Development of European and American educational systems and programs. Historical perspective of modern educational programs.

336 INTRODUCTION TO COMPARATIVE EDUCATION 3

Comparative analysis of major ideas and institutions of selected national systems of education. Problems related to

developments in American education.

340 STATISTICS I 3 F,S

PSY 111 or SOA 106. Also offered as SOA 340, and PSY 340.

Application and interpretation of basic statistics used in the behavioral sciences: descriptive statistics, simple hypothesis testing and two-variable regression.

347 TEACHER'S ROLE IN CHILD, FAMILY, AND COMMUNITY RELATIONSHIPS 3 F,S

C&I 210 or 250 and cons inst.

Theories and techniques of child-management, consultation procedures, parent and family education, and parent involvement within the school and community agencies and institutions.

350 READING-LANGUAGE ARTS: EARLY ELEMENTARY 3 F,S

C&I 220 or 251 or 306.

Extension and integration of the concepts and skills utilized in teaching reading and other language arts in the early elementary years.

353 CONTEMPORARY PROGRAMS IN ELEMENTARY SCHOOL SCIENCE 3 F

C&I 230 or cons inst.

Student investigations of ESS, SCIS, AAAS, COPES, materials commensurate with the teaching grade level. Emphasis placed on the investigative approach to the teaching of elementary science.

354 DEMONSTRATION TECHNIQUES IN ELEMENTARY SCHOOL SCIENCE 2 S

C&I 230, 252 or cons inst.

Basic theory, rationale, and principles of effective demonstration science teaching in elementary school science. Includes analysis, synthesis, and utilization of both commercial and individually constructed demonstration apparatus and materials. Students will develop and use demonstration materials.

360 PRINCIPLES OF GUIDANCE 3 F,S

Backgrounds, philosophy, and services in school guidance programs. Appraisal, informational and counseling services. Role of the classroom teacher: organization of guidance activities.

361 STUDENT PERSONNEL WORK IN HIGHER EDUCATION 3

Fundamental concepts, organization and administration of higher education student personnel work. The student personnel worker as a facilitator in the changing educational scene.

362 BASIC SKILLS IN COUNSELOR EDUCATION 3 F,S

Lecture and laboratory.

Introduction to, and laboratory practice in, the basic procedures and skills of counseling.

387 MEASUREMENT AND EVALUATION IN EDUCATION 3 F,S

Development, use and improvement of standardized and teacher-made tests and self-rating devices. Interpretation of test data and use of test results. Appropriate for elementary, secondary and college levels.

390 JUNIOR HIGH/MIDDLE SCHOOL CURRICULUM 3 F,S

C&I 306 or conc reg and cons inst. No credit if in Elementary Education Core Program. Formerly C&I 290.

Curriculum planning and instruction of young adolescents

in various types of school organizations; methods and materials in language arts, social studies, arithmetic and social activities. A practicum experience is required.

398 PROFESSIONAL PRACTICE: SCHOOL/COMMUNITY INVOLVEMENT 2-6

Educational Administration

Chairperson: Clayton F. Thomas, 331 DeGarmo Hall.

Faculty: Professors: Burnham, Chambers, Dieterle, Edwards, Egelson, Hickrod, Hubbard, Laymon, Matsler, McGrath, Thomas. Associate Professors: Lovell, McCarthy, Sabine, Assistant Professors: Adams, Jackson, Lynn.

Educational Administration Programs and Courses

The Department of Educational Administration offers only graduate work. It offers no undergraduate programs or courses. Consult the *Graduate Catalog* for departmental offerings.

Special Education

Chairperson: James E. Walker, 110 Fairchild Hall.

Faculty: Professors: Bommarito, Caldwell, Hage, Hemenway, Price, Rex, Stearns, Walker. Associate Professors: Bauer, Birkenholz, Blackley, Bowen, Cannell, Hadden. Assistant Professors: Beckman, DeGrandpre, Foltz, McAnally, Morreau, Nezel, Noyes, Starzinger, Stephens, Tasker, Woodson. Instructors: Buscher, Cassens, Clark, Cross, Cummings, Gottlieb, Paarlberg, Scarborough, Seiler, Senti, Sessions, Smith. Lecturers: Gray, Hug, Jackson, Jarrett, Smithson. Faculty Associates: Ash, Bayston, Brown, Hain, Hildreth.

Special Education Programs

Degrees Offered: B.A., B.S., B.S. in Ed. Further information: Department of Special Education. Teacher education programs only available. Special Education students should consult the University-Wide Teacher Education Program Requirements section of the Catalog for information relevant to admission to the teacher education program, certification, and clinical experiences in teacher education.

Admission to Special Education Programs: Since more students desire admission to Special Education programs than can be accommodated, students are admitted on a selective basis. Specific information on admissions policies and practices is available from the Department of Special Education. While students may be admitted as Special Education majors, they must also be admitted to one of the sequences specified below.

Professional Requirements Applicable to All Special Education Programs: All students in Special Education complete 35 hours in Professional Requirements, which are specified for each sequence below, in addition to the requirements for their specific sequence. Students in SED 399 (Student Teaching) receive various numbers of credit hours dependent upon the Special Education Sequence in which they are enrolled, with more than 8 hours required in some sequences.

COMPREHENSIVE SPECIAL EDUCATION MAJOR Behaviorally and Learning Disordered Sequence:

Sequence Requirements: 59 hours required in addition to Professional Requirements. Required courses: ART 101,

207; BSC 181, 182; ENG 170 or INF 306 or INF 307; at least 3 hours in GEO electives; HPR 222 or 223; at least 5 hours of MAT electives; MUS 371; PSY 347; SOA 323; PAS 115; SED 301, 361, 362; 8 hours of SED 399 (Student Teaching) in addition to the 8 hours of 399 in Professional Requirements for a total of 16 hours of 399. Professional requirements: 35 hours including SED 145; C&I 210 or PSY 112; C&I 220, 270 or 280 or 290 or 216; C&I 298 or SED 307; C&I 231 or 228 or 235; PSY 232, 334, 346; SED 399 (8 hours).

Deaf and Hard of Hearing Sequence: Sequence Requirements: 49 hours required in addition to Professional Requirements. Required courses: ART 101; BSC 181, 182; ENG 170 or INF 306 or 307; ENG 241 or 243 or 341; SED 245, 330, 353, 354, 355, 359; PAS 311, 350, 351, 372; additional 2 hours of SED 399 (Student Teaching) in addition to the 8 hours of 399 in Professional Requirements for a total of 10 hours in 399. Professional Requirements: 32 hours including SED 145; C&I 210, 220, 270 or 280 or 290, 231 or 228 or 235; PSY 232, 334, 346; SED 399 (8 hours).

Mentally retarded, Educable Sequence: Sequence Requirements: 44 hours required in addition to Professional Requirements. Required courses: ART 101, 207; BSC 181, 182; ENG 170 or INF 306 or 307; at least 3 hours of GEO electives; HPR 222 or 223; HEC 106; at least 5 hours of MAT electives; MUS 371; SED 301, 343, 346; PAS 115. Professional Requirements: 35 hours including SED 145; C&I 210, 220, 270 or 280 or 290, 298, 231 or 235; PSY 232, 334, 346; SED 399 (8 hours).

Mentally Retarded, Trainable Sequence: Sequence Requirements: 49 hours required in addition to Professional Requirements. Required courses: ART 101, 207; BSC 181, 182; ENG 170 or INF 306 or 307; at least 3 hours of GEO electives; HPR 222 or 223 or 382; HEC 106; at least 5 hours of MAT electives; MUS 371; PSY 347; SOA 323; SED 301, 343, 345; PAS 115. Professional Requirements: 35 hours including SED 145; C&I 210, 220, 270 or 280 or 290, 298, 231 or 228 or 235; PSY 232, 334, 346; SED 399 (8 hours).

Physically Handicapped Sequence: Sequence Requirements: 46 hours required in addition to Professional Requirements. Required courses: ART 101, 207; BSC 181, 182, 381, 385; ENG 170 or INF 306 or 307; at least 3 hours of GEO electives; HPR 222 or 223; HEC 106; at least 5 hours of MAT electives; MUS 371; SED 301, 349; PAS 115. Professional Requirements: 35 hours including SED 145; C&I 210, 220, 270 or 280 or 290, 298, 231 or 228 or 235; PSY 232, 334, 346; SED 399 (8 hours).

Severely and Profoundly Handicapped Sequence: Sequence Requirements: 44 hours required in addition to Professional Requirements. Required courses: ART 207; BSC 181, 182, 385; HPR 349, 382 or 383; MUS 190; PSY 111; SED 245, 343, 370, 371, 372; PAS 115. Professional Requirements: 34 hours including SED 145; PSY 112 or C&I 210; C&I 220, 228 or 231 or 235; PSY 334; SED 345, 399 (16 hours). (The State of Illinois does not currently issue a certificate for teachers of the severely and profoundly handicapped.) Students enrolled in this program will obtain certification through the process of transcript evaluation.

Visually Handicapped Sequence: Sequence Requirements: 63 hours required in addition to Professional Requirements. Required courses: ART 101, 207; BSC 181, 182, 382; BEA 112; ENG 170 or INF 306 or 307; at least 3 hours of GEO electives; HPR 222; HEC 106; at least 5 hours of MAT electives; MUS 371; SED 301, 350, 351, 352, 356, 360; PAS 115; additional 7 hours of SED 399 (Student Teaching) in addition to 8 hours in 399 in Professional

Requirements for a total of 15 hours of 399. Professional Requirements: 35 hours including SED 145; C&I 210, 220, 270 or 280 or 290, 298, 231 or 228 or 235; PSY 232, 334, 346; SED 399 (8 hours).

Special Education Courses

145 INTRODUCTION TO SPECIAL EDUCATION 3 F.S

245 FIELD WORK IN SPECIAL EDUCATION 1-6 F.S

Cons inst and dept chrpn. May be repeated.

Supervised experiences in special education programs in day schools, clinical facilities, community agencies, residential institutions.

301 LABORATORY READING METHODS 3 F.S

SED 145 and C&I 220 or cons dept chrpn. Three double periods per week.

Techniques of diagnosis and instruction for special cases of severe reading disability.

307 EMPLOYMENT ANALYSIS FOR THE EXCEPTIONAL 3 F.S

Also offered as IT 307. Materials charge.

Diagnosis and instruction of exceptional children who are placed in occupational education. Synthesizing employment and education for exceptional children.

312 SELECTION OF INSTRUCTIONAL MATERIALS FOR THE HANDICAPPED LEARNER 3

INF 240.

Personalization or adaptation of instructional materials, translation of instruction from one medium to another and choice of media which occurs at the level of the individual special educator and the handicapped pupil.

330 THE LANGUAGE OF SIGNS AND FINGERSPELLING 2 F.S

SED 145 or cons dept chrpn. Laboratory required.

Beginning course in developing expressive and receptive skills in sign language and fingerspelling.

343 MENTAL RETARDATION 3 F.S

SED 145 or cons dept chrpn. Formerly PSY 348.

Medical, psychological and sociological characteristics and behavior of the mentally retarded. Methods of classification, causes and rehabilitative aspects.

345 SPECIAL CLASSES FOR THE TRAINABLE 3 F.S

SED 343 or cons dept chrpn. Observation and participation.

Organization of educational programs for trainable mentally retarded.

346 EDUCATION FOR THE MENTALLY RETARDED 4 F.S

SED 343 or cons dept chrpn. Observation and participation.

Objectives, curriculum and methods for educable mentally retarded.

347 EDUCATION OF THE NEUROLOGICALLY IMPAIRED 2 F.S

Observation and participation. Not for credit if had SED 362.

Educational adjustments for children with severe learning problems and/or perceptual dysfunction.

348 EDUCATION OF GIFTED CHILDREN 2 F.S

349 EDUCATION OF PHYSICALLY HANDICAPPED 2 F.S
BSC 381 or cons dept chrpn. Observation and participation.

Educational programs for crippled and other health impaired children.

350 INTRODUCTION TO VISUAL HANDICAPS 3 F.S

SED 145 or cons dept chrpn.

Nature and needs of the visually handicapped, infants to adults.

351 EDUCATION OF THE VISUALLY HANDICAPPED 3 F.S

SED 350 and 356, or cons dept chrpn.

352 BRAILLE READING AND WRITING I 3 F.S

BEA 112 or proficiency in typing, or cons dept chrpn.

353 EDUCATION OF THE DEAF 2 F.S
SED 145 or cons dept chrpn.

Psychological, social, historical and educational problems relating to education of the hearing impaired.

354 THE TEACHING OF SPEECH TO THE DEAF 4 F.S

SED 330, 353, PAS 311 or cons dept chrpn. Observation and participation.

Principles and techniques of developing and teaching speech to hearing impaired students at all school levels.

355 THE TEACHING OF LANGUAGE TO THE DEAF 4 F.S

SED 354 or cons dept chrpn. Observation and participation.

Principles and techniques of teaching language to hearing impaired students at all school levels.

356 BRAILLE READING AND WRITING II 3 F.S

SED 352.

Designed to develop mastery of the braille mathematic code and materials format code.

358 EDUCATION OF SOCIALLY AND EMOTIONALLY DISTURBED 2 F.S

PSY 347. Not for credit if had SED 362.

359 THE TEACHING OF READING AND ELEMENTARY SCHOOL SUBJECTS TO THE DEAF 4 F.S

SED 355.

Teaching reading and other core subjects to hearing impaired students at all school levels.

360 ORIENTATION AND MOBILITY FOR CLASSROOM TEACHERS 2 F.S

Practicum in basic daily living skills and rudimentary mobility techniques.

361 EDUCATIONAL ASSESSMENT OF THE LEARNING AND BEHAVIORALLY DISORDERED 5 F.S

Maj only or cons dept chrpn. Participation.

Generation, analysis, synthesis and application of data in planning educational programs for the learning/behaviorally disordered.

362 EDUCATION OF THE LEARNING AND BEHAVIORALLY DISORDERED 5 F.S

SED 361 or conc reg req. Maj only or cons dept chrpn. Participation. Not for credit if had SED 347 or 358.

Development and delivery of educational programs for

individuals identified as learning or behaviorally disordered.

370 INSTRUCTIONAL PROGRAMMING FOR THE HANDICAPPED 3

Eligibility for admission to teacher education, area major, or cons of dept chrpn.

Analysis of procedures for determining individual behavioral needs, designing instructional sequences, implementing behavior change programs, and evaluating effects of program for disabled individuals.

371 EDUCATION OF SEVERELY AND PROFOUNDLY HANDICAPPED INDIVIDUALS. 3

SED 245. Eligibility for admission to teacher education, area major, or cons of dept chrpn.

Implementation of educational programs for severely and profoundly handicapped individuals. Observation and participation required.

372 EDUCATIONAL DIAGNOSIS OF SEVERELY AND PROFOUNDLY HANDICAPPED INDIVIDUALS 3

SED 245, 371, eligible for admission to teacher education, area major, or cons of dept. chrpn.

Application of diagnostic skills in assessing severely and profoundly handicapped individuals, designing individualized programs, and evaluating client progress and program effectiveness.

University-Wide Teacher Education Program Requirements

This section of the catalog provides information needed by students in teacher education programs only. Students seeking further information or clarification on information presented here should contact the Office of Clinical Experiences and Admission-Retention in Teacher Education located in DeGarmo Hall.

Each student who completes a bachelor's degree program in teacher education is eligible for one or more teaching certificates in the State of Illinois. When a student has completed all the requirements for a degree, the Office of Admissions and Records will issue a card of entitlement for an Illinois Teaching Certificate. Specific information concerning requirements for certification in Illinois may be obtained at the Office of Clinical Experiences and Admission-Retention in Teacher Education. General information may be obtained at the Placement Service or the offices of superintendents of educational service regions. The Dean of the College of Education serves as the certification officer for the University.

Students are advised that the teacher education certification requirements provided here are for Illinois and that they should consult certification requirements for other states if they desire to be certified for teaching elsewhere.

Students who complete a bachelor's degree program in teacher education at Illinois State University have their transcripts stamped, "Student has completed NCATE program in teacher education." (NCATE is the National Council for Accreditation of Teacher Education.) Students interested in completing a teacher education program at Illinois State must (1) be admitted to a teacher education program, (2) complete general education, professional, and subject area coursework and clinical experiences requirements appropriate to the elementary, junior high, high school,

special education, or early childhood education, and (3) successfully complete student teaching.

Admission-Retention Program

The following policies concerning admission-retention in teacher education programs apply to all students pursuing teacher education programs in any department of any college of the University.

The Office of Clinical Experiences and Admission-Retention in Teacher Education administers the procedures for admission to programs of teacher education based upon the stated eligibility requirements. Additional departmental and academic major requirements for admission to teacher education may be established by departments. A student should obtain information about departmental and academic major requirements from the department of the student's major field.

A student will not be assigned to student teaching unless formally admitted to teacher education programs and all stipulated prerequisites for student teaching are satisfied.

A student may elect a maximum of 9 semester hours of undergraduate study in education without formal admission to teacher education programs. Exceptions beyond this maximum are approved by the Office of Clinical Experiences and Admission-Retention in Teacher Education. General or exploratory study in education is encouraged, but students seeking to satisfy teaching certification requirements should do so by formal admission to appropriate teacher education programs.

ADMISSION PROGRAM

Each student planning to enter a teacher education program must meet the eligibility standards and follow the procedures for admission to teacher education programs as follows:

1. Eligibility for Application:

a. A student who wishes to enter a program of teacher education may request formal admission to that program after the completion of 45 hours, at least 12 of which must be graded hours and must be earned at Illinois State University.

b. Freshman or sophomore students may pursue study as "Majors" in any area including elementary education or special education, but their formal admission to programs of teacher education must be consistent with the above regulation. Lower division undergraduate students who wish to take immediate advantage of teacher education scholarships must submit a declaration of intent for subsequent admission to teacher education programs.

c. A student seeking admission to a teacher education program must have an ISU cumulative grade point average of 2.2 or higher for all undergraduate credit as well as in their major field at the time of admission to the program and must maintain a cumulative and major field grade point average of 2.2 or higher throughout the program.

d. A student seeking admission to a teacher education program must receive an eligibility recommendation from the Departments of English and Information Sciences.

(1) In order for a student to receive an eligibility recommendation in English, the student must have earned

a C or higher in English 101. A student who receives credit by proficiency examination in English 101 will receive a recommendation. A student who takes English 101 on pass/fail will receive a recommendation if the actual grade turned in by the instructor is C or higher. A student who receives a D in English 101 must repeat the course and earn a higher grade in order to receive an eligibility recommendation or receive credit by successfully passing the qualifying examination.

(2) In order for a student to receive an eligibility recommendation in Information Sciences, the student must have earned a C or higher in Information Sciences 110 and must have cleared any identified speech disorder. A student who receives credit by proficiency examination in Information Sciences 110 will receive a recommendation. A student who takes Information Sciences 110 on pass/fail will receive a recommendation if the actual grade turned in by the instructor is a C or higher. A student who receives a D in Information Sciences 110 must repeat the course and earn a higher grade in order to be recommended for student teaching.

(3) Effective September, 1974, all students enrolling in Information Sciences 110 will be required to complete satisfactorily a speech check conducted by the Department of Speech Pathology and Audiology. Any student who presents transfer credit in meeting the speech requirement must secure a speech check from the Department of Speech Pathology and Audiology.

e. A transfer student may be admitted to a teacher education program only after completion of a minimum of 12 hours of graded work at Illinois State University. A grade point average of 2.2 must be earned in this residence study.

2. Procedures for Admission:

Application forms for admission to teacher education are obtained from the Office of Clinical Experiences and Admission-Retention in Teacher Education. Students must obtain, complete, and return the forms to the Office of Clinical Experiences and Admission-Retention in Teacher Education by established and publicized deadline dates. Among materials submitted and considered for admission are the following:

- a. Recommendations: Recommendations are to be obtained from the student's adviser and from a present or previous college instructor in the major department of the student.
- b. Interviews: All students should be available for interviews upon request.
- c. Entrance, Psychological, or Aptitude Exams: Students may be requested to take certain examinations for the purpose of assessing potentiality for teacher preparation and educational careers.

Students must be admitted to teacher education at least one semester prior to student teaching. Specific deadline dates are publicized and available from the Office of Clinical Experiences. After application forms have been checked, students will receive formal notification as to their admission or non-acceptance into the program. Students who are denied admission to teacher education or student teaching may file a petition for a hearing. Specific information regarding procedures for a hearing in accordance with the University's *Student Rights and Responsibilities* may be obtained in the Office of Clinical Experiences and Admission-Retention in Student Teaching.

RETENTION PROGRAM

In recognition of its responsibility to the schools in which its graduates teach, the University maintains a program of selective retention of candidates for the teaching profession. Thus, the University seeks to avoid recommending a candidate for a student teaching assignment or for certification unless the candidate has good character, sound mental and physical health, academic competence in his or her overall studies, teaching fields, and professional studies (see the requirements for student teaching).

Professional Certification

In order to qualify for certification, each student in a teacher education program must complete: (1) a distribution of course work in general education (this may be and is usually done within the University Studies program), (2) courses in professional education appropriate to high school, junior high school, elementary, special education, or early childhood education, and (3) a teacher education approved major and minor field of study or a teacher education approved comprehensive major.

HIGH SCHOOL

1. General Education Requirements: The following 42-hour general education requirement for high school teacher certification may be met within Illinois State's University Studies program so that, with appropriate course selections, a student meets both program requirements simultaneously:

- 8 hours of Language Arts.
- 6 hours of Science and/or Mathematics.
- 6 hours of Social Science, including a course in American History or Government.
- 6 hours in Humanities.
- 3 hours in Health and Physical Education from HPR courses numbered 100-149, 163, 165, 166, 180, 181, 182, 267, 268, 269, 340, or BSC 145, 181, 182.
- Additional hours in any above fields and/or Psychology (except Educational Psychology) to total 42 hours.

2. Professional Education Requirements: Each student preparing to teach at the high school level must complete the following program: 24 hours. Required courses: PSY 215 (3 hours); C&I 200 (8 hours) 231 or 228 or 235 (3 hours); Student Teaching 399 (10 hours).

Urban Education Program. Students desiring work in urban settings may elect to complete the Urban Education Program. Students interested in this program which features community-based on-site coursework and teaching experiences in inner-city schools and/or inter-city agencies, should consult the chairperson of the Department of Curriculum and Instruction. The program, which includes both on and off-campus work, includes: 29 hours. Required courses: PSY 215; C&I 200 (4 hours), 228, 232, 312 (6 hours); Student Teaching 399 (10 hours).

3. Field of Study Requirements: The approved teacher education major and minor or comprehensive major may be selected from among the following programs which are described in detail in the undergraduate field of study section of the catalog.

Field of Study:

- Agriculture — Comp. Major
- Anthropology — Major and Minor

Art — Comp. Major and Minor
 Bilingual Education — Minor
 Biological Sciences — Comp. Major, Major, and Minor
 Business Education — Comp. Major, Major, and Minor
 Chemistry — Major and Minor
 Dance — Comp. Major and Minor
 Early Childhood Education — Comp. Major and Minor
 Economics — Minor
 English — Comp. Major, Major, and Minor
 Ethnic and Cultural Studies — Minor
 French — Major and Minor
 Geography — Major and Minor
 German — Major and Minor
 Health Education — Comp. Major and Minor
 History — Major and Minor
 Home Economics — Comp. Major, Major, and Minor
 Industrial Education — Comp. Major, Major, and Minor
 Instructional Media — Minor
 Journalism — Minor
 Latin — Minor
 Latin American Studies — Minor
 Library Science — Major and Minor
 Mathematics — Comp. Major, Major, and Minor
 Music — Comp. Major and Minor
 Philosophy — Minor
 Physical Education — Comp., Major, Major, and Minor
 Physics — Major and Minor
 Political Science — Major and Minor
 Psychology — Major and Minor
 Russian — Major and Minor
 Social Sciences — Comp. Major
 Sociology — Major and Minor
 Spanish — Major and Minor
 Special Education — Comp. Major
 Speech Communication — Major and Minor
 Speech Pathology — Comp. Major
 Theatre — Major and Minor

A copy of ISU programs approved by the State Teacher Certification Board of the Illinois Office of Education may be obtained from the Office of Clinical Experiences in DeGarmo Hall. Any undergraduate student, with the exception of teacher education majors, may graduate with one major or any combination of majors and minors of his/her choice, unless restricted by department policy as stated in the Catalog. Teacher education majors must complete a comprehensive teaching major or a teaching major/minor combination along with professional education requirements. A teacher education major who meets all requirements for certification may also complete requirements for other majors or minors offered in the University and have them listed on his/her transcript.

JUNIOR HIGH SCHOOL

1. General Education Requirements: A student may meet the following general education requirements and the University Studies requirement simultaneously. Courses beyond the 42 hours required for University Studies should be selected from among the courses approved for University Studies. The 48-hour general education requirement for the junior high school program includes:

- 9 hours of Language Arts.
- 7 hours of Humanities, including 1 hour of Art and 1 hour of Music.
- 12 hours of Social and Behavioral Sciences, including a course in American History or Government.
- 7 hours of Natural Sciences.
- 5 hours of Mathematics.

4 hours of Health and Physical Education (2 hours from BSC 145, 240, or 248, and 2 hours from HPR 180, 242, or 280).

4 hours of Applied Sciences, selected from HEC or IT courses.

2. Professional Education Requirements: 27 hours in Professional Education is required: C&I 130, 131, 132, 228 or 231, or 235, 233, 306, 333, 390; PSY 302; Student Teaching 399 (8 hours).

3. Field of Study Requirements: Students in the program may prepare themselves to teach in any of the subject areas of the Junior High/Middle School: Language Arts-Reading, Science, Social Studies, Foreign Languages, Health, Physical Education, Mathematics, Industrial Arts, Home Economics, Art, Music, Reading. Under advisement, the student concentrating on the Language Arts-Reading, Social Studies, or Science areas will take from 36 to 56 semester hours in the field. In all other fields, preparation will consist of 18 to 38 semester hours work, depending upon whether the given field is the student's first or second area of concentration. In addition to their general methods course for Junior High/Middle School teaching, most students will have special methods courses in the teaching field(s), along with a study of Junior High/Middle School curriculum.

ELEMENTARY SCHOOL

1. General Education Requirements: The 78-hour general education requirement for an Elementary Education student includes:

- 8 hours of Language Arts.
- 6 hours in Science.
- 6 hours in Social Science, including a course in American History or Government.
- 6 hours in Humanities.
- 3 hours in Mathematics.
- 3 hours in Health and Physical Education from HPR courses numbered 100-149, 163, 165, 166, 180, 181, 182, 267, 268, 269, 340, or BSC 145, 181, 182.

All other requirements are automatically met within the Elementary Education major as described in the catalog. Students should plan a program of study which simultaneously meets the above requirements and Illinois State's University Studies (general education) requirement.

2. Professional Education and Field of Study Requirements: Both of these requirements are described in the Elementary Education field of study section of this catalog.

EARLY CHILDHOOD EDUCATION

1. General Education Requirements: The 78 hour general education requirement for an Early Childhood Education student includes:

- 9 hours in Language Arts.
- 7 hours in Science.
- 7 hours in Social Science, including a course in American History or government.
- 7 hours in Humanities.
- 3 hours in Health and Physical Education from HPR courses numbered 100-149, 163, 165, 166, 180, 181, 182, 267, 268, 269, 340, or BSC 145, 181, 182.

All other requirements are automatically met within the Early Childhood Education major as described in the Catalog. Students should plan a program of study which

simultaneously meets the above requirement and Illinois State's University Studies (general education) requirement.

2. Professional Education and Field of Study

Requirements: Students may obtain a Comprehensive Early Childhood Education major through the Department of Curriculum and Instruction. Specific professional education and field of study requirements are available through the Department of Curriculum and Instruction. Students who are enrolled as majors in the Departments of Curriculum and Instruction, Home Economics, Psychology, and Special Education may obtain a minor in Early Childhood Education. Specific professional education and field of study requirements are available from those departments. Information related to the Practicum for Early Childhood Education (major and minor) is available from the Office of Clinical Experiences in Teacher Education. Students who wish to teach in Early Childhood Education reimbursable programs in the Illinois public schools should obtain this information as early as possible so that they can plan their programs to meet these requirements prior to completion of their programs.

SPECIAL EDUCATION

Students in Special Education may complete a sequence in any of the following areas: Behaviorally and Learning Disordered, Deaf and Hard of Hearing, Mentally Retarded, Educable, Mentally Retarded, Trainable, Physically Handicapped, Severely and Profoundly Handicapped, Visually Handicapped.

To ensure full certification the pattern of preparation should include:

1. General Education Requirements: The 42 hours of general education requirement includes:

- 9 hours of Language Arts.
- 7 hours of Science.
- 7 hours of Social Science (including a course in American History or Government).
- 6 hours of Humanities.
- 5 hours of Mathematics.
- 3 hours of Health and Physical Education.

2. Professional Education and Area of Specialization Requirements: These requirements are described in the Special Education section of this Catalog.

SPEECH PATHOLOGY

1. General Education Requirements: The 42-hour general education requirement for high school teacher certification is followed for majors in Speech Pathology.

2. Professional Education and Area of Specialization Requirements: Both of these requirements are described in the Speech Pathology-Audiology major in the program section of the catalog.

3. Master's Degree: The Illinois Certificate in Speech and Language Impaired requires a master's degree.

Clinical Experiences in Teacher Education

Observation, participation, studies of individual pupils and research, simulated teaching and student teaching are included in the program of clinical experiences. The experiences offered prior to student teaching are usually integral parts of specific college courses. Clinical experiences are provided in off-campus clinical teaching centers, in local schools and in campus laboratory schools. Clinical laboratory experiences following student teaching include activities in which the student does additional study or has additional experiences as recommended by his instructors, supervising teacher or college supervisor.

REQUIREMENTS FOR STUDENT TEACHING

The following requirements for student teaching apply to all students (1) whether the student teaching is done during the regular school year or during the summer session, and (2) whether the student teaching is done at a clinical center or in any of the teacher education programs at Illinois State University.

The minimum requirement in student teaching is 36 clock hours for each semester hour of credit (5 semester hours — 180 clock hours). More clock hours of clinical work are required in Speech Pathology.

The number of semester hours of student teaching required varies with the student's curriculum. A student enrolled in an elementary, junior high school, special education or speech pathology curriculum is required to earn a minimum of 8 hours of credit in student teaching. A student enrolled in a high school curriculum is required to earn a minimum of 10 hours of credit in student teaching and special methods.

A student usually does all student teaching in his or her major field. A student must meet all eligibility requirements for student teaching in that major field. If a student does student teaching in his or her minor field, the student must meet certification requirements for teaching in that field. If a student does all student teaching in the major field or in both the major and minor fields, the total number of semester hours required in student teaching remains the same.

To be eligible to do student teaching, a student must meet all of the following requirements:

1. Be formally admitted to an approved teacher education program of the University at least one semester prior to the beginning of the semester in which student teaching is to be done.

2. Have completed 15 semester hours of work in residence (or its equivalent) at Illinois State University.

3. Have a teacher education approved major and minor field of study or a teacher education approved comprehensive major.

4. Have earned at least 90 hours of college credit.

5. Have, if an undergraduate student, completed satisfactorily the courses which are prerequisites to Student Teaching 399 (see General Offerings in Course Listing section of Catalog) or C&I 253. Have, if a student with a bachelor's degree from a recognized college or university, completed satisfactorily all the professional education courses required in the specific sequence (early childhood, elementary, junior high school, secondary, or special education). Specific information related to professional education courses that must be completed before assignment is made to student teaching is available in the Office of Clinical Experiences and Admission-Retention to Teacher Education.

6. Have earned at least a 2.2 grade point average at the time of application for student teaching and at the time of entry into student teaching in: (a) all work taken at Illinois State University, and (b) all work taken at Illinois State University in the major field.

7. Have secured a statement from the University Health Service indicating that he or she is physically capable of meeting the requirements of a regularly certified teacher.

8. Have filed an application for student teaching for a given semester with the Director of Clinical Experiences at least six months prior to the semester in which student teaching is planned.

9. Have successfully completed at Illinois State University a minimum of 4 semester hours of professional education approved by the appropriate education department at ISU prior to student teaching.

10. Have been approved for student teaching by the chairperson of the department of the student's major and the director of the Office of Clinical Experiences.

Students are expected to earn all of the student teaching credit required at Illinois State University. Exceptions to this policy may be made in individual cases if credit in student teaching has been earned in an institution of higher education accredited by the National Council for Accreditation of Teacher Education. Such arrangements must have the prior approval of the Director of Clinical Experiences.

ASSIGNMENT TO STUDENT TEACHING

The University will assign student teachers to selected off-campus schools or to clinical centers in Illinois during regular semesters. Student teachers are assigned only to classrooms that have regularly employed full-time teachers. Assignments are not made to a school in which the student teacher is concurrently employed as a teacher. A student teacher may not earn academic credit and receive a salary or an income for the same teaching experience.

The usual patterns for student teaching are to assign a student to a school for a period of nine weeks or to a teacher education field center for eighteen weeks, during which time the student does full-time student teaching. During this period in the school, the student teacher works with one or more supervising teachers who are responsible for teaching a specific group or groups of pupils. These

supervising teachers along with the college supervisors have responsibility for guiding and evaluating the work of the student teacher. During this experience, the student becomes a member of the school staff and of the community in which he or she is working (co-curricular activities and community affairs are a part of the student teaching experience).

The Director of Clinical Experiences, in cooperation with the head of the student's major department, makes the student teaching assignments. The Director of Clinical Experiences is responsible for making the arrangements and establishing the procedures involved in student teaching.

Although a student's preference for an assignment will be given consideration, the University makes the final decision regarding the school and the location. Generally, students are not assigned to schools which are in their home communities or in communities in which they are currently residing.

Any student who has a prolonged illness or temporary disability and who is unable to continue in his/her student teaching assignment should consult with the Director of the Office of Clinical Experiences. A clearance from a physician will be required stating that the student is again able to continue in his/her student teaching assignment without any contingencies.

Students who have had teaching experience and who have shown a high standard of achievement in previous teaching may be given special student teaching assignments involving remedial instruction or other specialized phases of teaching which will broaden their preparation.

The Director of Clinical Experiences, upon the recommendation of the college supervisor or chairperson of the student's major department, may require a student to do additional work and continue student teaching until the student is sufficiently competent to be recommended for certification.

Student teaching assignments begin and end on the dates indicated in the student's official notice of assignment. Ordinarily, the student is expected to follow the school calendar of the school in which student teaching is done insofar as vacations and school holidays are concerned. Changes in dates involved in an assignment must receive the permission of the Director of Clinical Experiences.

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College of Fine Arts

Dean: Charles Bolen, 116 Center for the Visual Arts.
The primary function of the College of Fine Arts and its Departments of Art, Music, and Theatre is to provide professional training in the arts for students preparing to be elementary secondary and college teachers and for students desiring professional careers in select areas of the arts. Various areas of concentration in undergraduate and graduate studies, including MFA and MM programs and a doctoral program in Art, provide flexible curricula for a variety of student talents and interests. The College also provides a cultural environment through the performing and visual arts for the campus, community and region.

Art

Chairperson: Frederick V. Mills, 119 Center for the Visual Arts.

Faculty: Professors: Barford, Boyd, Freyberger, George, Gregor, Hartley, Holder, Mills, Moore, Myers, Niemi, Rennels, Salome, Townner. Associate Professors: S. F. Amster, S. H. Amster, Anderson, Butler, Carswell, Colvin, Hentz, Hobbs, Jackson, Knoblock, Malone, Mawdsley, Natalie, Steff, Steinburg, Tinsley. Assistant Professors: Block, Bontemps, Brower, Brown, Cuppini, Ernest, Finch, Harris, McClain, Newby, Suhr, Sweet, Tell, Toperzer, Walker-Oni, Walter, Wesle. Instructors: Kinser, Muirhead. Faculty Assistants: Bertagnolli, Erf, Holden, Majewski. Lecturers: Marlow, Peck, Steiner, Stumbo.

The Department of Art is accredited in Division I by the National Association of Schools of Art.

Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) Art Programs

Degrees Offered: B.A., B.S., B.F.A. Further Information: Department of Art. Separate liberal arts and teacher education programs.

MAJOR IN ART

- 37 hours in Art required.
- Required courses: ART 103, 104, 106, 109, 155, 156, 257; two courses from ART 224, 228, 232, 240; two courses from ART 213, 226, 261; any 300-level Art History course; remaining hours in ART electives. ART 201, 203, 204, 309 do not count toward major.

COMPREHENSIVE ART MAJOR

- 55 hours in Art required.
- Required courses: ART 103, 104, 106, 109, 155, 156, 257; two courses from ART 224, 228, 232, 240; two courses from ART 213, 226, 261; any 300-level Art History course; remaining hours in ART electives. ART 201, 203, 204, 309 do not count toward major.

COMPREHENSIVE ART EDUCATION MAJOR

- 55 hours in Art required.
- Required courses: ART 103, 104, 106, 109, 155, 156, 201, 257, 309 (2 consecutive semesters); two courses from ART 224, 228, 232, 240; two courses from ART 213, 226, 261; any 300-level Art History course; remaining hours in ART electives.

MINOR IN ART

- 27 hours in Art required.
- Required courses: ART 103, 104, 106, 109, 155, 156; 9 hours of electives in ART. ART 201, 203, 204, 309 do not count toward minor.

MINOR IN ART EDUCATION

- 27 hours in Art required.
- Required courses: ART 103, 104, 106, 109, 155 or 156, 201, 203, or 204; 6 hours of electives in ART.

Bachelor of Fine Arts (B.F.A.) Art Program

Degree Offered: B.F.A. Further Information: Department of Art. Liberal arts program only.

COMPREHENSIVE B.F.A. ART MAJOR

- 72 hours in Art required.
- Required courses (45 hours): ART 103, 104, 106, 109, 155, 156, 232, 235, 257, 261; two courses selected from among ART 224, 228, 240; two courses selected from among ART 213, 226, 245; any two 300-level Art History courses.
- 27 additional hours in chosen concentration selected in consultation with an academic adviser. ART 201, 203, 204, and 309 do not count toward this major. Students are admitted to the B.F.A. degree program during the sophomore year; the student must submit a portfolio to the Department of Art as part of the admission process of the B.F.A. degree program. Consult the Department of Art for further information on admission to the B.F.A. program in Art. An exhibition of the student's work during the senior year is required of students in the B.F.A. program.

Art Courses

The Department of Art reserves the right to keep for demonstration and exhibition examples of work done by students for course requirements.

100 INTRODUCTORY ART

WORKSHOP 2 US-A F,S
Materials charge.

Drawing, painting, printmaking, sculpture, and crafts.

101 ART ACTIVITIES FOR ELEMENTARY SCHOOLS 2 F,S

Materials charge.

103 VISUAL ELEMENTS 3 F,S

Fundamentals of two-dimensional design.

104 BASIC DRAWING 3 F,S

Practice in drawing using a variety of materials.

105 TEACHING ART IN THE JUNIOR HIGH SCHOOL 2

106 ART FOUNDATIONS 1 F

Introduction to the scope of art concerns and possibilities.

108 STRUCTURAL DESIGN 3

Principles applied to creating products for home or industry.

109 BASIC MATERIALS 3 F,S

Materials charge.

Fundamentals of three-dimensional design.

111 ART FUNDAMENTALS 3 F,S

Primarily for students in HEC. Materials charge.

116 PUPPETRY 3 F,S

Also offered as THE 116.

118 LANDSCAPE COMPOSITIONS AND SKETCHING 3

- 150 ART APPRECIATION** 2 US-A F,S
Non-Art maj.
Survey of art styles.
- 155 SURVEY OF ART I** 3 US-B F,S
Arts from pre-historic times to end of Medieval period circa 1400.
- 156 SURVEY OF ART II** 3 US-B F,S
Arts of the early Renaissance, circa 1400, to the end of the Baroque, circa 1775.
- 200 ART MATERIALS FOR ELEMENTARY SCHOOLS** 3
F,S
Maj min only; others by cons dept chrpn.
- 201 CRAFTS FOR ART EDUCATION** 3 F,S
Maj min only; others by cons dept chrpn.
- 202 ART ACTIVITIES FOR ELEMENTARY SCHOOLS** 3 F,S
ART 101. No credit if in Elementary Education Core Program. Materials charge. Formerly ART 102.
Methods and laboratory experiences in two and three-dimensional activities.
- 203 TEACHING ART IN THE SECONDARY SCHOOLS** 3 S
Art minors only; other by cons of dept chrpn. Formerly ART 203 and 204.
Includes teaching methods, curriculum planning, requisitions, observations, and participation in art, secondary level.
- 204 TEACHING ART IN THE ELEMENTARY SCHOOLS** 3 F
Art minors only; others by cons of dept chrpn. Formerly ART 202 and 204.
Includes teaching methods, curriculum planning, requisitions, observations, and participation in art, elementary level.
- 206 THE ART RESOURCE PERSON** 1
10 hrs in Art. Elem Educ maj only.
- 207 ART FOR SPECIAL EDUCATION** 3 F,S
ART 101 and cons inst. For SED students. Formerly ART FOR EXCEPTIONAL CHILDREN. Materials charge.
- 211 ADVANCED CRAFTS** 3
Maj min only; others by cons dept chrpn.
- 213 LIFE DRAWING** 3 F,S
Formerly ART 113.
Drawing from human figure, anatomy, and composition.
- 214 DRAWING COMPOSITION** 3 F,S
ART 213. Formerly ART 114: LIFE COMPOSITION
Further study of human figure, representation, and composition.
- 224 JEWELRY I** 3 F,S
Formerly ART 124. Materials charge.
Fundamental processes in crafting of precious and semi-precious metals.
- 225 JEWELRY II** 3 F,S
ART 224. Formerly ART 224. Materials charge.
Advanced problems in jewelry.
- 226 VISUAL COMMUNICATIONS I** 3 F,S
ART 103 or cons inst. Formerly ART 126. Materials charge.
Studio work in hand lettering, type usage, and layout procedures.
- 227 VISUAL COMMUNICATIONS II** 3 F,S
ART 226. Formerly ART 226. Materials charge.
Studio work in graphic design for visual communications media.
- 228 CERAMICS I** 3 F,S
Formerly ART 127: POTTERY. Materials charge.
Designing, making, glazing, and firing of pottery.
- 229 CERAMICS II** 3 F,S
ART 228. Formerly ART 227. Materials charge.
Advanced problems in ceramic design.
- 230 CERAMIC TECHNOLOGY** 3 F,S
ART 228 or cons inst. Materials charge.
A study of ceramic technology as it relates to the studio potter. Special attention will be given to glaze formulation, clay bodies, and kiln design.
- 232 SCULPTURE I** 3 F,S
Formerly ART 132. Materials charge.
Experimentation with modern sculptural techniques.
- 233 SCULPTURE II** 3 F,S
ART 232. Formerly ART 232. Materials charge.
Advanced sculpture in various media.
- 235 PHOTOGRAPHY AS AN ART FORM** 3 F,S
Materials charge.
The study of photography as an art form.
- 240 WEAVING I** 3 F,S
Formerly ART 140. Materials charge.
Introduction to various weaving techniques.
- 241 WEAVING II** 3 F,S
Art 240. Formerly ART 240. Materials charge.
Advanced work in various weaving techniques.
- 242 MINORITY ARTS** 3 US-A
A survey course designed to study forms, content, artistic technique, and contributions of the American Indian, Chicano, Puerto Rican, and black American artists of the present.
- 245 PRINTMAKING I** 3 F,S
ART 104. Materials charge.
Introduction to printmaking techniques.
- 248 REPROGRAPHICS** 3
ART 226.
The study of process photography as an art form.
- 250 THE ARTS AND MODERN MAN** 3 US-A F,S
Also offered as MUS 250 and THE 250.
Selected works from music, theatre and visual arts.
- 251 EXPERIMENTAL FILMMAKING** 3 F,S
ART 103 or equiv. Materials charge.
The study of filmmaking as an art form.
- 255 GLASS I** 3 F,S
One ART course or cons inst. Materials charge.
Basic techniques of glass blowing.
- 257 SURVEY OF ART III** 3 F,S
Arts from the Romantic Era, circa 1775, to the present.
- 259 AESTHETIC EXPERIENCE** 1 US-A F,S
May be repeated. Max 3 hrs. Also offered as MUS 259 and THE 259.
One hour of credit is available on a credit-no credit basis for attendance at 15 fine arts events. One class meeting per week is used to introduce future events and to analyze past events.

- 261 PAINTING I** 3 **F,S**
Formerly ART 161.
 Experimental work with variety of transparent and opaque painting media.
- 262 PAINTING II** 3 **F,S**
ART 261. Formerly ART 261.
 Problems of pictorialization and survey of contemporary trends in painting.
- 263 PAINTING III** 3 **F,S**
ART 261, 262. Formerly ART 262.
 Individual exploration of concepts from ART 261 and 262.
- 277 AFRO-AMERICAN ART — PRE-SLAVERY TO 1865** 3 **US-A F,S**
 Study of art forms, content, artistic technique and contributions of pre-slavery artists up to Afro-American artists of 1865.
- 278 BLACK AMERICAN ART — 1865 to PRESENT** 3 **US-A F,S**
 Study of artistic technique lifestyles, political and social implications of black American artists from 1865 to present.
- 309 PROFESSIONAL ART EDUCATION CORE** 3 **F,S**
Not for credit if had ART 203 or 204. For ART EDU maj; others by cons dept chrpn. Two consecutive semester sequence starting in Fall.
 Learning theory, studio skills and art teaching methodology.
- 321 PHILOSOPHY OF ART** 3 **F,S**
- 324 JEWELRY III** 2-6 **F,S**
ART 225. May be repeated. Materials charge. Formerly ADVANCED JEWELRY AND SILVER-SMITHING.
- 326 VISUAL COMMUNICATIONS III** 3 **F,S**
ART 226, 227. Materials charge.
 Advanced studio work in advertising and editorial layout.
- 328 CERAMICS III** 2-6 **F,S**
ART 229. May be repeated. Formerly ART 327. Materials charge.
- 331 ADVANCED DRAWING** 1-3 **F,S**
ART 214. May be repeated.
- 332 SCULPTURE III** 2-6 **F,S**
ART 233. May be repeated. Materials charge.
- 340 WEAVING III** 2-6 **F,S**
ART 241. May be repeated. Materials charge.
- 345 PRINTMAKING II** 2-6 **F,S**
ART 245. May be repeated. Formerly ADVANCED GRAPHICS. Materials charge.
- 351 SPECIAL PROJECTS IN ART** 2-6 **F,S**
Cons inst. May be repeated. Materials charge.
- 355 GLASS II** 2-6 **F,S**
ART 255. May be repeated. Materials charge.
 Advanced skills of creating hand blown glass.
- 361 PAINTING IV** 2-6 **F,S**
ART 263. May be repeated.

366 ANCIENT ART 3
 Art and architecture of early civilizations of Egypt, Mesopotamia and peripheral areas from circa 8000 B.C. to circa 300 B.C.

367 CLASSICAL ART 3
 Art and architecture of the Aegean, Greek and Roman worlds from circa 3000 B.C. to the era of Constantine.

369 HISTORY OF MEDIEVAL ART AND ARCHITECTURE 3

Art and architecture of Europe from circa 500 A.D. to the Renaissance.

372 MODERN ARCHITECTURE 3
Formerly ART 483.

Late 19th and 20th century architecture. Sullivan, Wright and the Chicago School. European movements involving Le Corbusier, Gropius, and Mies Van der Rohe. The great engineers, Maillart, Nervi, Fuller, Candela.

373 PRE-COLUMBIAN ART INDIAN ARTS OF MIDDLE AMERICA 3

Art of Mexico and Yucatan before the arrival of the Spanish.

375 ITALIAN RENAISSANCE ART 3
 Painting, sculpture, and architecture of the 15th and 16th centuries in Italy.

376 NORTHERN RENAISSANCE ART 3
 Art and architecture of the Renaissance and Mannerism in Northern Europe.

377 HISTORY OF BAROQUE AND ROCOCO ART 3
 Painting, sculpture, and architecture of Europe during the 17th century.

378 HISTORY OF 19th CENTURY ART AND ARCHITECTURE 3
 Concentration is centered on the art of Europe from the French Revolution to the 20th century.

379 MODERN ART 3
 Painting and sculpture in Europe and America from the late 19th century to 1970.

380 ART IN THE UNITED STATES I: COLONIAL — 19th CENTURY ROMANTICISM 3
 American art from the Colonial Period through 19th century Romanticism.

381 ART IN THE UNITED STATES II: AMERICAN IMPRESSIONISM — WORLD WAR II 3
 American art from late 19th century Impressionism to the advent of World War II.

382 ART IN THE UNITED STATES III: WORLD WAR II TO THE PRESENT 3
 Complex artistic developments which occurred in the United States from World War II to the present.

398 PROFESSIONAL PRACTICE: INTERNSHIP IN ART 1-8
May be repeated. Max 16 hrs. Cons inst.

Supervised work experiences in: Professional Studio; Design; Community or Governmental Arts Programs; Arts Administration; Teaching Art (Not for credit ART EDUCATION maj); Art Related Industry.

Music

Chairperson: David L. Shrader, 230 Centennial East.

Faculty: Professors: Bedford, Bolen, Cordero, Corra, Eichen, Farlee, Ferrell, Han, Poultney, Roderick, Rye, Shrader. Associate Professors: Armstrong, DeBose, Foeller, Hillstrom, Kemp, Koerselman, Lewis, Livingston, J. LoMonaco, Peterson, Rosene, Sanders, Schoenfeld, P. Schuetz, Sudano, Williams. Assistant Professors: Boitos, Bosits, Chavez, R. Faulmann, Hardine Hirt, Hurtz, Manning, Monette,

Omer, Rehm, Stephens, Stokes, Suggs, Vance, Whikehart.
Instructors: Falk, E. Faulmann. Lecturers: Dawson, Iwasaki,
A. LoMonaco, J. Schuetz.

General Information Concerning Music Programs and Courses

1. Admission Auditions: Students who intend to major in Music at Illinois State University are expected to have prior music experiences. Prior to acceptance as a Music major, all students must pass a performance audition on their major instrument or voice. Information concerning admission auditions is available from the Department of Music.

2. Placement Tests: All students admitted to a Music major degree program and all Music minors are required to take a placement test prior to enrolling in courses in music theory and applied music. The test results determine the courses in which students enroll. Information concerning these placement tests is available from the Department of Music.

3. Performing Organization Requirement: All students pursuing a Music major degree program are required to participate in a major music-performing organization each semester they are enrolled in the University (B.M.E. majors are exempt from this requirement during the semester of Student Teaching). Specific performing organization participation requirements are indicated below for each of the Music major degree programs. A maximum of 12 hours in music performing organization credit is applicable to any degree.

4. Concurrent Registration: Students registered in applied music courses (MUS 131-138 and 231-238) are required to be concurrently registered in MUS 106 or 206.

5. Enrollment Limitations: Enrollment in some Music Courses is limited to those students who have had auditions or who have secured the permission of the appropriate coordinator. Information concerning these course enrollment limitations is available from the Department of Music.

6. Musical Instrument Storage: In the event that students choose to store musical instruments on campus in any building operated by the University, they hereby waive any and all liability of the University and its employees for the loss of or damage to such musical instruments by any cause whatsoever, including, but not limited to, fire, water, windstorm, or any other casualty, theft, or dampness or dryness of the air.

Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) Music Programs

Degrees Offered: B.A., B.S. Liberal arts program designed to be combined with other majors and minors.

MAJOR IN MUSIC

- 37 hours in Music required.
- Required courses: MUS 101, 102, 203, 204; at least 8 hours of applied music (may include Group Instruction Voice or Piano); elective courses in MUS to complete 37 hours.

MINOR IN MUSIC

- 24 hours in Music required.
- Required courses: MUS 101, 102; at least 8 hours of applied music (may include Group Instruction Voice or Piano); at least 4 hours in performing organizations or

ensembles; elective courses in MUS to complete 24 hours.

Bachelor of Music Education (B.M.E.) Programs

Degree Offered: B.M.E. Teacher education program.

COMPREHENSIVE MUSIC EDUCATION MAJOR

Core Requirement and Sequences: All students must complete the core requirement of MUS 101, 102, 203, and 204 and choose a sequence from one of the four sequences below. Depending upon the sequence chosen, the major will require from 57 to 60 hours. The Vocal and Keyboard sequences involve preparation for K-12 certification with a choral general emphasis. The Band and Orchestra sequences involve preparation for K-12 certification with an instrumental emphasis.

Piano and Applied Music Requirements: Students pursuing the B.M.E. degree are required to attain sufficient skill in playing the piano to pass a proficiency test prior to their student teaching and/or their senior year. A syllabus of proficiency requirements is available in the department office, or from the Group Piano Coordinator. The study of piano may be done in Group Instruction 122 or in applied piano. A maximum of 8 hours is allowed for taking piano in group instruction. Students pursuing the B.M.E. degree are required to study applied music on their major instrument every semester that they are enrolled in the program, except for the semester in which they student teach (this may include Group Instruction Voice or Piano). This must include the successful completion of at least one semester of a 200-level applied music course.

Choral-General-Vocal Sequence: 57 hours in Music required. Required courses: Core requirement and a minimum of 2 semesters of group or applied piano and 5 semesters of group or applied voice (group voice may be repeated only once for credit); MUS 127, 167, 262, 264. Students must be enrolled for 1 hour of credit in University Glee Club, Treble Choir, Oratorio Choir, Concert Choir, or Madrigal Singers each semester they are in residence, except for the semester in which they student teach. Within this requirement, students must take not less than four semesters in Oratorio Choir, Concert Choir, or Madrigal Singers.

Choral-General-Keyboard Sequence: 59 hours in Music required. Required courses: Core requirement and a minimum of 3 semesters of group or applied voice and 5 semesters of group or applied piano; MUS 167, 240 (3 hours required), 262, 264, 330 (piano). Students must be enrolled for 1 hour of credit in University Glee Club, Treble Choir, Oratorio Choir, Concert Choir, or Madrigal Singers each semester they are in residence, except for the semester in which they student teach. Within this requirement, students must take not less than four semesters in Oratorio Choir, Concert Choir, or Madrigal Singers.

Instrumental-Band Sequence: 60 hours in Music required. Required courses: Core requirement and MUS 111, 113, 115, 117, 161, 167, 261. Students must be enrolled for 1 hour of credit in Concert Band, Varsity Band, University Band, Jazz Band, Chamber Wind Ensemble, or Orchestra each semester they are in residence, except for the semester in which they student teach. Within this requirement, students must take not less than two semesters of marching band, nor less than two semesters of a concert band.

Instrumental-Orchestra Sequence: 57 hours required. Required courses: Core requirement and MUS 111, 113, 115, 117, 167, 330 (strings). Student must be enrolled for 1 hour of credit in an orchestra each semester they are in residence, except for the semester in which they student teach.

MINOR IN MUSIC EDUCATION

— 24 to 27 hours in Music required, depending upon sequence selected (student selects one of the five sequences below).

Choral Music Sequence: 26 hours in Music required. Required courses: MUS 101, 102, 167, 264; at least 4 hours of applied music voice (may include Group Instruction Voice); at least 4 hours of applied music keyboard (may include Group Instruction Piano).

General Music Sequence: 26 hours required. Required courses: MUS 101, 102, 167, 262; at least 4 hours of applied music keyboard (may include Group Instruction Piano); at least 4 hours of applied music voice (may include Group Instruction Voice).

Instrumental Music-Winds Sequence: 27 hours required. Required courses: MUS 101, 102, 111, 115, 117, 167, 261; at least 4 hours of applied music brass, percussion, or woodwinds.

Instrumental Music-Strings Sequence: 27 hours required. Required courses: MUS 101, 102, 111, 113, 115, 117, 167, 330 (appropriate string pedagogy and literature course); at least 4 hours of applied music strings.

Applied Music Sequence: 24 hours required. Required courses: MUS 101, 102, 167, 330 (appropriate pedagogy and literature course); at least 8 hours of applied music on the major instrument.

Students wishing to pursue the minor in applied music must audition; freshmen after one year in the University; sophomore transfer students, after one semester; junior and senior transfers, upon enrollment in the University.

Bachelor of Music (B.M.) Program

Degree Offered: B.M. Professional music program.

COMPREHENSIVE MUSIC MAJOR

— 68 hours of Music required.

— Required courses: MUS 101, 102, 167, 203, 204, and two courses selected from among MUS 255, 256, 257, and 258; one applied music course on the major instrument each semester (may include Group Instruction Voice or Piano), including the successful completion of at least one semester of 200 level applied music; in addition, students must be enrolled for 1 hour of credit each semester they are in residence in Concert Band, Varsity Band, Marching Band, Jazz Band, Chamber Wind Ensemble, Orchestra, University Glee Club, Treble Choir, Oratorio Choir, Concert Choir, Madrigal Singers, or Accompanying (for keyboard majors only).

Student also selects one of the five sequences below and completes requirements of that sequence. For students who select sequences 3, 4, or 5, the requirements are: three semesters of 200-level applied music, a partial junior recital, and a senior recital.

Music Theory-Composition Sequence: 23 additional hours in theory, composition, and theory pedagogy; electives to complete 68 hours.

Music History-Literature Sequence: 12 additional hours in theory; 12 additional hours in music history and problems in music history; electives to complete 68 hours.

Keyboard Instrument Performance (Piano, Harpsichord) Sequence: 2 hours in keyboard pedagogy and literature; 4 hours in accompanying (may be 4 of the 8 hours in music performing organizations required of BM majors); 9 additional hours in theory and music history; electives to complete 68 hours.

Voice Performance Sequence: 2 hours in vocal pedagogy and literature; 2 hours in choral conducting; electives to complete 68 hours.

Band and Orchestra Instruments Performance Sequence: 2 hours in pedagogy and literature on appropriate instrument; 2 hours in instrumental conducting; electives to complete 68 hours.

Music Therapy Certification Program

A music major who completes the requirements for a B.S., B.A., or B.M.E. degree, and who completes the required courses listed below in addition to a six-month internship sanctioned by the National Association for Music Therapy, Inc., may be certified as a registered music therapist. Required Music courses include: MUS 111, 113, 115, 117, 190, 191, 292, 294, 340, 341, 360 (4 hours). It is also required that a student enroll in MUS 192 or 292 each semester the student is enrolled in the University except for the first semester of the freshman year. Social class guitar and applied music organ are highly recommended. Required additional courses in other departments include: AHP 100 or 105; HPR 120, 133.14, 181; PSY 232, 301, 302 and two PSY electives from 333, 346, 347, 348, 350, 361, 363; SOA 106, 180; PAS 112 or 215. Students enrolled in Music Therapy must meet the requirements for a degree in music as well as the requirements established by the National Association for Music Therapy, Inc. Students enrolled in this program may expect to exceed the general University requirement of 120 hours for graduation; 130-136 hours will normally be required to meet both Music Therapy and University requirements for graduation. The prospective music therapy student is encouraged to contact the Director of Music Therapy Program in the Department of Music before beginning coursework.

Music Courses

100 INTRODUCTION TO MUSIC

THEORY 3 US-A F,S

Pitch and rhythmic notation, major-minor key system, sight reading of simple pitch, rhythmic patterns, diatonic melodies.

101 MUSIC THEORY AND

HISTORY 6 US-A F

Theory Placement Test or MUS 100 or cons Theory Coord. Formerly MUSIC THEORY AND LITERATURE.

Principles of rhythmic, melodic, and harmonic analysis; the cultivation of skills in ear training, sight singing, and reperitory building; a general historical survey of Western music.

102 MUSIC THEORY AND

HISTORY 6 US-A S

MUS 101 or cons Theory Coord. Formerly MUSIC THEORY AND LITERATURE.

Continuation of analysis techniques and skills-building; concentration on the music history and literature of the 17th and 18th centuries.

106 APPLIED MUSIC LABORATORY 0

111 GROUP INSTRUCTION IN BRASS 2

F,S

Practical instruction in playing all brass instruments.

113 GROUP INSTRUCTION IN STRINGS 2**F,S**

Practical instruction in playing the violin, viola, cello and string bass.

115 GROUP INSTRUCTION IN WOODWINDS 2**F,S**

Practical instruction in playing all woodwind instruments.

117 GROUP INSTRUCTION IN PERCUSSION 1**F,S**

Practical instruction in playing and methods of teaching percussion instruments.

118 SOCIAL-CLASS GUITAR 2

Student must supply non-electric guitar.

121 GROUP INSTRUCTION IN PIANO 2**F,S**

For students who have had little or no formal piano study and who are not music maj or min. Enrollment and placement only by permission of the Group Piano Coord. May be repeated to total four hours.

Harmonization, sight-reading and transposition, technical studies, and solo ensemble repertoire.

122 GROUP INSTRUCTION IN PIANO 2**F,S**

Mus maj min with little or no keyboard skills. Enrollment and placement by permission of the Piano Coord. A syllabus of piano proficiency requirements is available from the music office and the Group Piano Coord. May be repeated to total eight hours.

126 GROUP INSTRUCTION IN VOICE 2**F,S**

May be repeated.

Practical instruction in singing. English and Italian diction. Successful completion of 126 by audition before members of voice faculty is prerequisite for admittance to 137.

127 FOREIGN LANGUAGE DICTION FOR SINGERS 2**F,S**

MUS 126 or ap mus-voc or conc reg.

German and French diction through the study of art songs in both languages.

131 - 138 APPLIED MUSIC 2 or 4 ea**F,S**

May be repeated. Permission of appropriate coord one sem in advance of reg. Prereq for MUS 137 described in narrative for MUS 126. Conc reg req MUS 106.

Brass, 131; harpsichord, 132; organ, 133; percussion, 134; piano, 135; strings, 136; voice, 137; woodwinds, 138.

139 ENSEMBLE 1-2**F,S**

May be repeated.

Study and performance of chamber music in a variety of combinations of instruments.

141 PIANO TUNING I 2**F**

Piano Tuning is a course designed to offer tuning techniques as well as maintenance and mechanical information necessary for the care of grand and studio model pianos. Students enrolled in the course will tune, maintain, and repair Department of Music pianos.

151 SURVEY OF MUSIC LITERATURE 3**US-A****F,S**

Music representative of the various periods and styles.

152 MUSIC OF 20TH CENTURY AMERICA 2**US-A****F,S**

MUS 151 or cons inst.

Particular eras, media, and styles are explored.

153 BLACK MUSIC I 3**US-A****F**

A survey of those musical elements — rhythm, improvisation, vocal inflections, call and response — which define Black Folk Music.

154 BLACK MUSIC II 3**US-A****S**

A survey of Black composers, arrangers, performers, and educators in the areas of Jazz, Blues, Gospel, Spirituals, Rhythm and Blues, and Western Classical music in the 20th century.

155 INTRODUCTION TO ELECTRONIC MUSIC 2**F**

An introduction to the history, literature and techniques of electronic music. Projects in tape manipulator and synthesizer techniques.

161 MARCHING BAND TACTICS 2**F,S**

Participation required in marching band during the football season.

Rudiments of marching band.

165 OPERA PRACTICUM 1**F,S**

May be repeated.

Practical experience in the staging of an opera or musical, with work ranging from set construction to leading roles.

167 BASIC CONDUCTING 2**F,S**

Fundamentals, score reading, rehearsal procedures and practical experience in work with choral or instrumental media.

171 BASIC MUSIC SKILLS 2**F,S**

Formerly MUSIC SKILLS FOR CLASSROOM TEACHERS.

Basic skills and fundamentals of music for students in the Elementary and Special Education curricula who do not read music.

181 - 188 PERFORMING ORGANIZATIONS 1**US-E****F,S**

Max 12 hours of 181 - 188 and 281 - 288 may be counted toward a degree.

Participation in the major organizations:

181, Concert, Varsity, or University Band.

182, Symphony Orchestra.

183, Chamber Wind Ensemble.

184, Concert Choir.

185, University Glee Club.

186, Treble Choir.

188, Civic Chorale.

190 PRINCIPLES OF MUSIC THERAPY I 2**F**

An introduction to music as a therapeutic agent in the rehabilitation and reorganization of the human being into social life.

191 PRINCIPLES OF MUSIC THERAPY II 2**S**

The function of the music therapist with clinical experience and observation of music therapy in action.

192 MUSIC THERAPY PRACTICUM 1**F,S**

May be repeated. Max 3 hrs. Course is offered on a credit/no credit basis only.

Supervised practical experience in therapeutic music situations in various institutions in the area.

203 MUSIC THEORY AND HISTORY 6**F**

MUS 102 or cons Theory Coord. Formerly MUS 103: MUSIC THEORY.

Contrapuntal techniques, chromatic harmony, and 20th century analytical techniques; concentration on the music history and literature of the 19th and 20th centuries.

- 204 MUSIC THEORY AND HISTORY 6 S**
MUS 203 or cons Theory Coord. Formerly MUS 104: MUSIC THEORY.
 A study of the theory, history, and literature of Western music from the 6th through the 16th centuries.
- 205 COMPOSITION 2 F,S**
May be repeated.
 This course is designed to develop individual creative talents of students in musical composition. Students will progress from the composing of well-balanced musical phrases to works in small forms for piano, choral groups, and small musical ensembles.
- 206 APPLIED MUSIC LABORATORY 0**
- 209 ORCHESTRATION 2 F**
 Scoring for orchestras and bands, focusing on tonal balance, color, timbre, and technical problems.
- 210 CHORAL ARRANGING 2**
 Arranging music for large and small vocal ensembles; emphasis on needs of public school vocal teacher.
- 218 JAZZ IMPROVISATION I 2 F**
Cons inst.
 Fundamentals in improvising or extemporaneous playing; opportunity to perform improvised solos, both on standard chord changes and original compositions.
- 231 - 238 APPLIED MUSIC 2 or 4 ea F,S**
May be repeated. Permission of appropriate coord one sem in advance of reg. Conc reg req MUS 206.
 Advanced brass, 231; harpsichord, 232; organ, 233; percussion, 234; piano, 235; strings, 236; voice, 237; woodwinds, 238.
- 239 ENSEMBLE 1-2 F,S**
May be repeated.
 Study and performance of chamber music in a variety of combinations of instruments.
- 240 ACCOMPANYING 1 F,S**
Formerly MUS 140. May be repeated.
 Technique and skills of accompanying singers and instrumentalists, including experience in providing accompaniments for other students.
- 250 THE ARTS AND MODERN MAN 3 US-A F,S**
Also offered as ART 250 and THE 250.
 Selected works from music, theatre and visual arts.
- 253 MUSIC HISTORY AND LITERATURE THROUGH THE 17TH CENTURY 3 F**
- 254 MUSIC HISTORY AND LITERATURE FROM THE 18TH CENTURY TO THE PRESENT 3 S**
- 255 MUSIC HISTORY AND LITERATURE, 20TH CENTURY 3 F**
MUS 204 or cons inst.
- 256 MUSIC HISTORY AND LITERATURE, 17TH AND 18TH CENTURIES 3**
MUS 204 or cons inst.
 Development of music during the 17th and 18th centuries including nationalities, schools, styles, and form.
- 257 MUSIC HISTORY AND LITERATURE OF THE 19TH CENTURY 3**
MUS 204 or cons inst.
 Musical developments in the 19th century; romanticism, impressionism, the orchestra, opera, art song, other large and small forms.
- 258 MUSIC HISTORY AND LITERATURE OF THE RENAISSANCE 3 S**
MUS 204 or cons inst.
 Artistic and social conditions of the 15th and 16th centuries in Europe, sacred and secular vocal music, instruments, forms, theoretical practices.
- 259 AESTHETIC EXPERIENCE 1 US-A F,S**
May be repeated. Max 3 hrs. Also offered as ART 259 and THE 259.
 One hour of credit is available on a credit-no credit basis for attendance at 15 fine arts events. One class meeting per week is used to introduce future events and to analyze past events.
- 261 INSTRUMENTAL TECHNIQUES 4 F**
Formerly MUS 361.
 Problems and procedures in developing instrumental classes and organizations.
- 262 MUSIC EDUCATION 4 F,S**
Cons dept chrpn for non-MUS maj.
 Survey of music in the kindergarten and grades one through eight; current practices in teaching music; materials used for singing, listening, rhythmic activities, creating, and playing; planning of music suitable for the activities program.
- 263 BAND SCORING 2 S**
 Instrumentation for bands; scoring for outdoors; transcription from other media; editing of scores.
- 264 MUSIC EDUCATION 4 F,S**
Cons dept chrpn for non-MUS maj.
 Survey of music in grades seven through twelve; current practices in teaching music; materials used for singing, listening, and creative activities; planning of music suitable for the activities program.
- 265 OPERA PRACTICUM 1 F,S**
May be repeated.
 Practical experience in the staging of an opera or musical with work ranging from set construction to leading roles.
- 268 CONDUCTING (CHORAL) 2 F,S**
MUS 167 or cons inst.
 Further development of conducting skills; principles of vocal production, rehearsal procedures, and problems of conducting choral music from all historical periods.
- 269 CONDUCTING (INSTRUMENTAL) 2 F,S**
MUS 167 or cons inst.
 Further development of conducting skills with attention given to interpretation of representative instrumental works of master composers.
- 270 MUSIC LITERATURE FOR CHILDREN 2 F,S**
For teachers, principals, and supervisors in elementary schools.
 Music interests of children in the various grades; music literature to develop these interests and promote growth; music suitable for use in various units in activities program.
- 277 MUSIC EDUCATION IN THE ELEMENTARY GRADES 3 F,S**
MUS 171 or cons inst. For classroom teachers and elementary principals. Not for credit maj or if in Elementary Education Core program.
 Techniques and materials for teaching music in kindergarten through six.

281 - 288 PERFORMING**ORGANIZATIONS 1 US-E F,S***Max 12 hours of 181 - 188 and 281 - 288 may be counted toward a degree.*

Participation in major organizations:

281, Concert, Varsity, or University Band.

282, Symphony Orchestra.

283, Chamber Wind Ensemble.

284, Concert Choir.

285, University Glee Club.

286, Treble Choir.

288, Civic Chorale.

292 MUSIC THERAPY PRACTICUM 1 F,S*May be repeated. Max 4 hrs. Course is offered on a credit/no credit basis only.*

Supervised practical experience in therapeutic music situations in various institutions in the area.

294 MUSIC IN RECREATION 2 S*MUS 190 or cons inst. Should be able to read music.*

Techniques and skills essential in the prescription, organization and procedures of leading recreational music activities within therapeutic setting.

301 FORM AND ANALYSIS IN**MUSIC 3 F**

Structure of music from simple binary and ternary forms to rondo, theme and variations, and sonata forms.

305 COMPOSITION 3 F,S*May be repeated.*

Free composition in larger forms.

307 SURVEY OF MUSIC THEORY 2 F

Review of analytical techniques and procedures. Emphasis on tonal music.

309 ADVANCED ORCHESTRATION 3 S*MUS 209 or cons inst.***330 PEDAGOGY AND LITERATURE 2 F,S***(Brass, woodwind, percussion, voice, strings, piano, organ.)**May be repeated. More than one area may be taken concurrently.*

Methods of teaching, class and individual instruction; emphasis on technique and a comparison of various teaching procedures. Survey of important literature and composers for each medium.

331 - 338 APPLIED MUSIC 2 or 4 ea F,S*May be repeated. Permission of appropriate coord one sem in advance of reg.*

Individual instruction: Advanced brass, 331; Harpsichord, 332; Organ, 333; Percussion, 334; Piano, 335; Strings, 336; Voice, 337; Woodwinds, 338.

340 INFLUENCE OF MUSIC**UPON BEHAVIOR 3 S***MUS 190, 191, PSY 111, SOA 106.*

A study of the various physiological effects of music. The place of functional music in music education, investigation of effective media and musical patterns. The relation of music and health in education, industry, and aesthetics.

341 MUSIC IN THERAPY 3 F*MUS 190, 191, and 340; or senior standing.*

The application of music experience as an adjunctive therapy in the prescriptive treatment of the exceptional child.

351 THE OPERA 3 F*MUS 204 or cons inst.*

Historical development of opera; emphasis on stylistic elements and trends of the various periods. Plots and music

through recordings, piano scores, full scores, live performances.

353 HYMNOLOGY 3

Christian hymns from early Greek and Roman times. Various denominational hymnals are examined and evaluated.

354 SACRED MUSIC REPERTOIRE 2

Reading and evaluating choral literature of all periods, covering motets, anthems, plainchant, and responses for adult and children's choirs. Attention given to organ music, instrumental music, cantata and oratorio.

355 ELECTRONIC MUSIC 2 S*MUS 155.*

An analysis of the various techniques of composition in the electronic media with practical experiences with the variety of sound-generating equipment available to the composer.

357 MUSIC BIBLIOGRAPHY 3 F

Introduction to methods of research. Critical examination of dictionaries, encyclopedias, catalogs and other aids to research.

358 NOTATION 2

Black notation in Medieval music: square, pre-Franconian. Tablatures and white notation in Renaissance solo and ensemble music.

360 INTRODUCTION TO PSYCHOMUSICOLOGY 3-4*Laboratory req for students following Music Therapy program. Formerly MUS 460: PSYCHOLOGY OF MUSIC EDUCATION.*

An introduction to the psychology of music behavior and cognition. Topics include music perception, memory, and learning and their relation to the sensory, formal, and expressive properties of music.

361 CURRENT TRENDS IN INSTRUMENTAL MUSIC 3 S*Formerly MUS 261.*

Administration and supervision of instrumental music in elementary and secondary schools, methods and materials in current use, and current research related to instrumental music teaching.

363 CHORAL TECHNIQUES 3*Course in conducting or practical experience.*

Choral rehearsal techniques as used in contemporary music education and other choral performance. Materials for learning and repertoire development, emphasizing modern trends.

364 CURRENT ISSUES IN MUSIC**EDUCATION 1-3 F***May be repeated. Max. 5 hrs.*

Current trends in all areas of Music Education. Course is open to both majors and non-majors.

365 OPERA PRACTICUM 1 F,S*May be repeated.*

Practical experience in the staging of an opera or musical with work ranging from set construction to leading roles.

371 MUSIC FOR THE EXCEPTIONAL CHILD 3 F,S

Trends in music education for exceptional children. Techniques and materials for a functional program of singing, playing, listening, and creative activities.

377 MUSIC EDUCATION IN THE ELEMENTARY GRADES 3 F,S*MUS 262 or 277. For elementary classroom teachers, music teachers, and music supervisors.*

Purposes, content, materials and teaching procedures in

general music classes in elementary schools; supervisory practices, in-service workshops and curriculum planning.

384 OPERA PRODUCTION 3 F,S
Approval Music Theatre Director. May be repeated.

Problems of presenting specific representative works from music theatre repertoire.

391 MUSICAL STYLES OF THE RENAISSANCE PERIOD 3
MUS 204. Formerly MUSICAL STYLES IN THE RENAISSANCE.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period.

392 MUSICAL STYLES OF THE BAROQUE PERIOD 3
MUS 204.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period.

394 MUSICAL STYLES OF THE CLASSICAL PERIOD 3
MUS 204.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period.

395 MUSICAL STYLES OF THE ROMANTIC PERIOD 3
MUS 204.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period.

396 MUSICAL STYLES OF THE TWENTIETH CENTURY 3
MUS 204.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period.

Theatre

Chairperson: Calvin Lee Pritner, 212 Centennial West.
Faculty: Professors: Andreasen, Kirk, Lane, Pritner, Sharpham, Scharfenberg. Associate Professors: Bickley, LaVista, Vybiral. Assistant Professors: Ashcraft, Berkson, Butler, Goldfarb, Heard, LaCasse, Morrison, Ritch, Romeo, Schmidt, E. Stringer, Traficante. Instructors: Ackermann, Sessions, B. Stringer.

Theatre Programs

Degrees Offered: B.A., B.S., B.S. in Ed. Further Information: Department of Theatre. Separate liberal arts and teacher education programs.

COMPREHENSIVE THEATRE MAJOR
Acting-Directing Sequence: 55 hours in Theatre required. Required courses: THE 111, 125, 126/136, 134, 6 hours of 135/335 and/or 136/336, 141, 151, 225, 237, 251, 337, 346, 347,, and THE electives to complete 55 hours.

Theatre Production Sequence: 55 hours in Theatre required. Required courses: THE 111, 125, 134, 151, 225, 237, 251, 266, 331, 346, 347; 6 hrs to be selected from THE 325, 330, 334, 340, and 377; THE electives to complete 55 hours.

Theatre majors are expected to participate in at least one University Theatre production each semester. Credit in

THE 150 or 350 may be earned for this participation. Students are expected to earn practicum in at least four different areas of theatre experience, such as costume, technical, management, acting, lighting, makeup.

MAJOR IN THEATRE EDUCATION
 — 36 hours in Theatre required.
 — Required courses: THE 111, 134, 141, 151, 237, 251, 301, 346, and THE electives to complete 36 hours.
 Student participation as described under Comprehensive Theatre Major above applies to this program also. The department recommends that students who plan to teach in high school take INF 125, 160 and 223 as part of their University Studies requirements.

MINOR IN THEATRE
 — 24 hours in Theatre required.
 — Required courses: THE 111, 134, 141, 151, 237, 251, 3 hours from among THE 346, 347, and THE electives to complete 24 hours.

MINOR IN THEATRE EDUCATION
 — 24 hours in Theatre required.
 — Required courses: THE 111, 134, 141, 151, 237, 251, 301, and THE electives to complete 24 hours.
 The department recommends that students who plan to teach in high school take INF 125, 160 and 223 as part of their University Studies requirements.

Theatre Courses

100 INTRODUCTION TO FILM ART 3 US-A F,S
Formerly THE 159.

Artistic and social values of the cinema as a contemporary art form. Screening and discussion of selected films.

101 INTRODUCTION TO THE THEATRE 3 US-A F,S
Formerly THE 130.

Special attention to the productions being given during the semester.

111 INTRODUCTION TO THE LITERATURE OF THE THEATRE 3 F,S
Formerly BASIC PRINCIPLES OF THEATRE.

Survey of literature of theatre from the Greeks to the present. Emphasis is on the study of structure, genres, and history of the period in which the play was produced.

116 PUPPETRY 3
Also offered as ART 116.

125 INTRODUCTION TO COSTUME 3 F,S
Lab arranged. Course fee required.

Study and practical application of costume construction techniques and the study of basic costume design practice.

126 VOCAL/PHYSICAL TECHNIQUE I 3 F,S

Integrated approach to actor-training, focusing on the acquisition of specific vocal/physical techniques skills: self-awareness, voice/body development, improvisation, expression.

127 VOCAL/PHYSICAL TECHNIQUE II 3 S
THE 126.

Further investigation and development of skills, experiences, methods and attitudes introduced in Vocal/Physical Technique I.

131 INTRODUCTION**TO ACTING 3 US-A F,S***Not for credit maj min.*

Introduction to process and nature of acting; variety of theatre experiences to encourage an understanding and appreciation of actor's craft.

132 EXPLORING THE RESIDENCE HALL**EXPERIENCE THROUGH****DRAMA 3 US-A F,S***Cons inst.*

Residence life is explored through creative drama, which is utilized as a content area and as a problem-solving strategy for personal growth.

134 BASIC ACTING 3 F,S*Maj min only. Cons inst. May be repeated. Max 6 hrs.*

Basic skills and concepts of acting.

135 ACTING: EXPLORING**CHARACTERIZATION****THROUGH ANIMAL****EXERCISES 3 S***THE 134 or equiv and cons inst. May be repeated.*

Techniques of actor research and characterization.

136 ACTING STYLE: DISCOVERY**AND PERFORMANCE 3 F,S***THE 134 or equiv and cons inst. May be repeated.*

Analysis, rehearsal and performance technique examined through the work of a particular playwright. In most semesters, at least four styles are offered.

139 THEATRE ENCOUNTER 1-3 F,S*May be repeated. Cons inst. Not for credit for 1st sem Freshmen. Max 6 hrs. Formerly THE 239, DRAMATIC WORKSHOP.*

Student-initiated projects in acting, directing, design, and playwrighting presented and critiqued. Emphasis is on process rather than final product. Production source for Process Theatre.

141 ORAL INTERPRETATION OF**LITERATURE 3 US-A F,S****146 INTRODUCTION TO****BLACK DRAMA****AND THEATRE 3 US-A F**

Exploration of the plays of the Afro-American dramatist from the Harlem Renaissance to the Black Arts Movement through lecture, discussion and workshop techniques.

150 THEATRE PRACTICUM 1-2 F,S*May be repeated. Course offered as credit/no credit only.***151 STAGECRAFT 3 F,S***Lab required. Conc reg THE 150 or THE 350 rec.*

Theory and technique of basic construction and rigging procedures.

225 STAGE MAKE-UP 2 F,S*THE 111, cons inst. Course fee required.***232 CREATIVE DRAMA 3 US-A F,S***Observations and practical activities required. No credit if in Elementary Education Core Program.*

Study of the theory and use of drama in classrooms, camps, youth groups, and other instructional situations. Provides an awareness of personal creative potential through drama.

233 THEATRE FOR THE CHILD**AUDIENCE 3**

Studies in the selection and analysis of scripts; problems of directing and acting; special problems of productions.

237 PRINCIPLES OF STAGE**DIRECTION 3 F,S***THE 111, 151.*

Acquaints the student with the basic principles of stage direction and provides a basic vocabulary and methodology.

250 THE ARTS AND MODERN**MAN 3 US-A S***Also offered as ART 250 and MUS 250.*

Selected works from music, theatre, and visual arts.

251 TECHNICAL PROCEDURES 3 F,S*THE 151. Formerly ADVANCED STAGECRAFT.*

Training in the methods and practices of stage management. Procedures and problems of technical production.

259 AESTHETIC**EXPERIENCE 1 US-A F,S***May be repeated. Max 3 hrs. Also offered as ART 259 and MUS 259.*

One hour of credit is available on a credit-no credit basis for attendance at 15 fine arts events. One class meeting per week is used to introduce future events and analyze past events.

266 LIGHTING FOR STAGE AND**TELEVISION 3 F**

Instrumentation, aesthetics, application of theatrical and television lighting through classroom-laboratory study.

270 THE DOCUMENTARY IN FILM**AND BROADCASTING 3 US-A S***Also offered as INF 270.*

Historical, philosophical, and theoretical consideration of documentary approach in films, television, and radio.

300 HISTORY OF THE**CINEMA 3 US-B F,S***Lab: screening of significant films.*

Historical and aesthetic development of the cinema.

301 PRINCIPLES OF THEATRE**EDUCATION 3 F**

Philosophies of theatre education, teaching strategies, co-curricular programs, textbook analysis, and professional organizations.

302 CINEMA PRODUCTION 3*Lab: produce 100 to 200 foot 16 mm silent motion pictures.*

Principles and theory of 16 mm motion picture production. Major filmmaking as an art form of creative self-expression.

325 COSTUME CRAFTS 3*THE 125, cons inst. Course fee required.*

Theory and technique of costume construction and use of special materials.

326 VOCAL/PHYSICAL**TECHNIQUE I 3 F,S**

Integrated approach to actor-training, focusing on the acquisition of specific vocal/physical techniques skills: self-awareness, voice/body development, improvisation, expression.

327 VOCAL/PHYSICAL**TECHNIQUE II 3 S***THE 126 or 326.*

Further investigation and development of skills, experiences, methods and attitudes introduced in Vocal/Physical Technique I.

328 ADVANCED STUDIES IN**VOCAL/PHYSICAL****TECHNIQUE 3 F**

THE 126 and 127, or 326 and 327 or equiv. May be repeated.

Continued vocal/physical technique with emphasis on individual needs. Advanced problems: characterization, circus, ensemble, period/style movement, choreography, use of externals.

330 ADVANCED STAGE LIGHTING 3 S
THE 151, 251 and cons inst.

Lighting design for proscenium and non-proscenium production; attention to system design.

331 STAGE DESIGN 3 S
THE 151, 251. Lab arranged. Formerly THE 231.

Nature, function, and aesthetics of scene design, with practice in composition.

332 ADVANCED CREATIVE DRAMA 3 F,S
THE 232, or C&I 250 or cons inst.

In-depth work in creative drama. Includes drama experiences, examining theories, comparing teacher strategies, and developing curricula.

333 CREATIVE DRAMA PRACTICUM 2-3 F,S
THE 232 or C&I 250 and cons inst. Course offered as credit/no credit for undergraduates. For graduate credit, the course is graded (A-F).

Students will gain practical experience in creative drama teaching by leading a class in drama under faculty supervision for a semester.

334 HISTORY AND STYLES OF STAGE COSTUMING 3 F
THE 125.

The costume's reflection of cultural and social milieu, and the costume's application to the stage.

335 ACTING: EXPLORING CHARACTERIZATION THROUGH ANIMAL EXERCISES 3 S
THE 134 or equiv and cons inst. May be repeated.

Techniques of actor research and characterization.

336 ACTING STYLE: DISCOVERY AND PERFORMANCE 3 F,S
THE 134 or equiv and cons inst. May be repeated.

Analysis, rehearsal and performance technique examined through the work of a particular playwright. At least four styles are offered in most semesters.

337 DIRECTING WORKSHOP 3 F,S
THE 237. May be repeated up to 6 hrs toward degree program.

Principles and methodologies of stage direction applied to particular problems in a workshop format.

339 THEATRE ENCOUNTER 1-3 F,S
May be repeated to total 6 hrs. Cons inst. MFA student may enroll for credit in each term of residency. Formerly THE 239: DRAMATIC WORKSHOP.

Student-initiated projects in acting, directing, design, and playwriting presented and critiqued. Emphasis is on process rather than final product. Production source for Process Theatre.

340 ADVANCED DESIGN 3 F
THE 331. May be repeated to total 6 hrs toward master's degree. MFA student may enroll for credit in each term of residency.

Intensive work in the areas of design and rendering for the stage; emphasis upon new materials and techniques.

341 ORAL INTERPRETATION OF LITERATURE II 3 US-A S
THE 141.

A study of the group forms of Interpretation — Readers Theatre and Chamber Theatre, with experiences to provide the student with practical applications of theory and principle.

342 ADVANCED PROJECTS IN DESIGN 2-4 F,S
May be repeated. Cons inst.

A study of design and production problems as they relate to productions being mounted by the Department of Theatre. Emphasis placed upon creative and collaborative aspects of producing theatre.

345 THE MODERN THEATRE 3 US-A F

Developments in stagecraft, directing, acting, and theatrical theory from late 19th century to present.

346 THEATRE HISTORY I 4 US-B F
Formerly THE 343.

The study of the history of drama and theatrical production from their origin to approximately 1775.

347 THEATRE HISTORY II 4 US-B S
Formerly THE 344.

The study of the history of drama and theatrical production from the late eighteenth century to the present.

348 PLAYWRITING 3
Also offered as ENG 348.

Playwriting techniques of selected masters with practical application of techniques in writing original plays.

349 SCENOGRAPHIC TECHNIQUES 3 S
IT 210 and cons inst.

A study of descriptive geometry and drafting techniques that are necessary in developing three dimensional stage space and scenic units into plans, elevations, and working drawings.

350 THEATRE PRACTICUM 1-3 F,S
May be repeated. Course offered as credit/no credit for undergraduates. For graduate credit, the course is graded (A-F).

Application of the principles of dramatic theory to the problems of play production.

360 PRINCIPLES OF THEATRE MANAGEMENT 3 S
Lab arranged.

Course introduces and demonstrates the practices and procedures of theatre management in today's theatre.

365 FILM THEORY AND CRITICISM 3 US-A F
THE 300, cons inst.

Theories relating to art of film making.

377 THEATRICAL COSTUME DESIGN 3 S
THE 125. May be repeated to total 6 hrs toward master's degree. MFA student may enroll for credit in each term of residency.

Research and practical application to theatrical costume designing; use of dramatic analysis.

380 DIRECTED PROJECTS 1-3 F,S
Cons inst. May be repeated.

Individually supervised study for the advanced student.

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University Faculty

The following is a list of faculty members as of the first semester of the 1977-78 academic year. The listing reflects academic ranks and titles in effect during 1977-78. The date following the name of the person indicates the year of joining the Illinois State University staff. Only the highest academic degree is indicated for each faculty member.

Ahmed A. Abdel-Halim (1970)
Associate Professor of Management
Ph.D., University of Illinois

Ellen M. Abshire (1960)
Assistant Professor of Health, Physical Education, Recreation and Dance
M.S., Indiana University

Diane L. Ackermann (1976)
Instructor in Theatre
M.A., Illinois State University

Steven L. Adams (1976)
Assistant to the Director of Admissions and Records
B.S., Illinois Wesleyan University

Vernon A. Adams (1970)
Director of Community College Affairs, and Part-time Assistant Professor of Educational Administration
Ph.D., University of Illinois

William H. Adams (1973)
Director of Publications in the Office of Public Affairs
Illinois Wesleyan University

Laura L. Addison (1962)
Assistant Librarian, Assistant Professor of Library Science
M.A., University of Denver

Kathryn M. Aden (1973)
Assistant Professor of Elementary Education
Ph.D., University of Illinois

Delores Akins (1976)
Hall Manager in the Office of Residential Life
B.S., Illinois State University

Richard N. Albert (1963)
Assistant Professor of English (Department of English, University High School)
M.S., The University of Wisconsin

Harold W. Alexander (1971)
Director of the High Potential Students Program, Associate Professor of English
M.A., The University of Iowa

Michael P. Alexander (1972)
Director of Financial Aid
M.S., Illinois State University

Phyllis M. Alexander (1977)
Instructor in English
M.A., Illinois State University

Wilma J. Alexander (1970)
Associate Professor of Business Education and Administrative Services
Ed.D., Oklahoma State University

Cathy D. Allen (1974)
Area Coordinator in the Office of Residential Life
M.S. in Ed., Illinois State University

Richard E. Allen (1963)
Associate Professor of English
Ph.D., Washington University

Stephanie H. Arnster (1970)
Associate Professor of Art
M.F.A., The University of Texas

Susan F. Arnster (1972)
Associate Professor of Art
Ph.D., The University of Texas

Diane H. Anderson (1971)
Counselor in the Student Counseling Services
M.S., Illinois State University

Edward T. Anderson (1965)
Director of Conferences and Institutes

in the College of Continuing Education and Public Service, Professor of Industrial Technology
Ed.D., University of Illinois

Frances E. Anderson (1970)
Associate Professor of Art
Ed.D., Indiana University

Karen L. Anderson (1977)
Director of Laboratory School Special Education, Faculty Associate in the Metcalf Elementary School
M.S. in Ed., Illinois State University

Mildred S. Anderson (1972)
Faculty Associate in the Metcalf Elementary School
Illinois State University, Western Illinois University

Roger C. Anderson (1976)
Associate Professor of Plant Ecology
Ph.D., The University of Wisconsin

Ronny C. Anderson (1973)
Assistant to the Vice President and Dean of Student Affairs
M.A., The University of Chicago

Louis E. Andrade (1967)
Assistant Professor of Philosophy
Ph.D., The University of Nebraska

Edward A. Andraesen (1967)
Professor of Theatre
M.A., Michigan State University

Wayne D. Andrews (1977)
Assistant Professor of Industrial Technology
Ed.D., West Virginia University

Donald J. Armstrong (1966)
Associate Professor of Music
D.M.A., The University of Texas

Candace J. Arthur (1977)
Assistant Librarian, Assistant Professor of Library Science
M.S., University of Illinois

Linda D. Ash (1972)
Faculty Associate in Special Education
M.S., University of Illinois

Anne C. Ashcraft (1977)
Assistant Professor of Theatre
M.A., The University of Chicago

George F. Aspbury (1970)
Assistant Professor of Geography
Ph.D., The University of Michigan

Ann K. Attora (1976)
Instructor in English
M.A., Illinois State University

Roy A. Austensen (1969)
Associate Professor of History
Ph.D., University of Illinois

G. Thomas Baer (1974)
Assistant Professor of Elementary Education
Ed.D., Northern Illinois University

Delwood A. Bagley (1977)
Associate Director of Financial Aid
B.A., Graceland College

Weldon J. Bailey (1977)
Instructor in Management
Ed.D., Illinois State University

Paul J. Baker (1965)
Professor of Sociology
Ph.D., Duke University

Robert L. Baker (1971)
Assistant Professor of Education
Ed.D., Syracuse University

Margaret K. Balbach (1973)
Assistant Professor of Plant and Soil Science
Ph.D., University of Illinois

Carolyn J. Balkema (1973)
Assistant Professor of Spanish
M.A., University of Illinois

K. Gerald Balls (1963)
Assistant Professor of English
M.S., Utah State University

Dean Banks (1977)
Assistant Professor of History
Ph.D., The University of Texas

Wilson P. Banks (1963)
Assistant Professor of Mathematics
Ph.D., University of Illinois

Jeanette F. Baptiste (1975)
Assistant Professor of Social Work
M.S.W., University of Illinois

Barbara A. Barchi (1975)
Assistant Professor of Elementary Education
Ph.D., The University of Michigan

George Barford (1947)
Professor of Art
M.A., Columbia University
Leave of Absence, Second Semester, 1977-78 School Year

Michael L. Barnhardt (1977)
Assistant Professor of Geography
M.S., University of Utah

John C. Barrow (1977)
Counselor in the Student Counseling Services
Ed.D., Columbia University

Barry B. Bass (1977)
Lecturer in Corrections
B.A., Monmouth College

Buford H. Bass (1951)
Head Baseball Coach, Professor of Health, Physical Education, Recreation and Dance
Ed.D., Louisiana State University

Helen M. Bass (1977)
Faculty Associate in University High School
B.S. in Ed., Illinois State University

Donald A. Bath (1977)
Assistant Professor of Chemistry
Ph.D., Montana State University

Catherine N. Batsche (1977)
Visiting Assistant Professor of Home Economics
M.A., Southern Methodist University

Everett E. Bauer (1970)
Associate Professor of Special Education
Ed.D., Illinois State University

John W. Baughn (1977)
Assistant Professor of Physics
Ph.D., The University of Wisconsin

Michael C. Baum (1977)
Counselor in Student Counseling Services, Lecturer in Psychology
Ph.D., The University of Texas at Austin

Dallas W. Bauman III (1977)
Acting Associate Director of Residential Life
M.S. in Ed., Indiana University

Darwin M. Bayston (1969)
Instructor in Finance
M.S., Illinois State University

Madge N. Bayston (1972)
Faculty Associate in Special Education
M.S. in Ed., Illinois State University

Joe E. Beck (1977)
Assistant Professor of Environmental Health
M.A., University of Illinois

Robert A. Becker (1977)
Instructor in Sociology
M.A., The University of Arizona

Kenneth R. Beckman (1960)
Assistant Professor of Special Education
Adv. Cert. in Ed., University of Illinois

Russell B. Bedford (1972)
Professor of Music
M.M., The University of Michigan

Terry A. Beehr (1975)
Assistant Professor of Psychology
Ph.D., The University of Michigan

Claude A. Bell (1956)
Associate Professor of Industrial Technology
Ed.D., University of Missouri

Ralph A. Bellas (1965)
Associate Professor of English
Ph.D., The University of Kansas

Francis B. Belshe (1948)
Vice President for Business and Finance, Professor of Education
Ph.D., Yale University

- Helen W. Benjamin (1946)**
Assistant Professor of Business Education
and Administrative Services
M.A., Columbia University
- John A. Beno (1973)**
Assistant Professor of Industrial
Technology
Ph.D., University of Maryland
- Robert J. Berger (1976)**
Counselor in the Student Counseling
Services, Assistant Professor of
Psychology
Ed.D., New York University
- Laurie L. Bergner (1978)**
Lecturer in Psychology
Ph.D., University of Colorado
- Raymond M. Bergner (1977)**
Assistant Professor of Psychology
Ph.D., University of Colorado
- Kenneth N. Berk (1969)**
Associate Professor of Mathematics
Ph.D., University of Minnesota
- Laura E. Berk (1969)**
Associate Professor of Psychology
Ph.D., The University of Chicago
- Michael A. Berkson (1974)**
Assistant Professor of Theatre
Ph.D., University of Illinois
- Bernard B. Bernardi (1971)**
Instructor in Industrial Technology
Ph.D., Illinois State University
- Minnie P. Berson (1970)**
Director of Early Childhood Education
Programs, Professor of Elementary
Education
Ed.D., Wayne State University
- Janet L. Bertagnolli (1976)**
Faculty Assistant in Art
M.S., Illinois State University
- Norman C. Bettis (1974)**
Assistant Professor of Education
Ph.D., Michigan State University
- Julia J. Bewsey (1960)**
Assistant Librarian, Assistant Professor
of Library Science
M.A., Indiana University
- Jon F. Bibb (1975)**
Assistant Professor of Marketing
M.B.A., University of Missouri
- C. Eric Bickley (1953)**
Associate Professor of Theatre
M.S., The University of Wisconsin
- Martha R. Bickley (1964)**
Assistant Professor of Business Education
and Administrative Services, Adviser in
Academic Advisement
M.S., Illinois State University
- Joan E. Biefeldt (1975)**
Instructor in Accounting
M.B.A., Illinois State University
- Linnée White Biles (1976)**
Counselor in the Student Counseling
Services
Ph.D., Kansas State University
- Dale E. Birkenholz (1962)**
Professor of Ecology
Ph.D., University of Florida
- Jane M. Birkenholz (1972)**
Associate Professor of Special Education
Ph.D., The University of Texas
- Donald K. Birner (1975)**
Instructor in Business Law
J.D., Washburn University (Kansas)
- Carolyn S. Bishop (1973)**
Assistant Director of Intramurals
M.A., Michigan State University
- Ferman Bishop (1960)**
Professor of English
Ph.D., The University of Wisconsin
- Alton J. Bjork (1968)**
Professor of Education
Ed.D., Columbia University
- Richard R. Blackley (1973)**
Associate Professor of Special Education
Ed.D., University of Southern California
- E. Scott Blankenship (1956)**
Professor of Education
Ph.D., The Ohio State University
- Roger D. Blomgren (1949)**
Professor of Industrial Technology
Ed.D., University of Illinois
- Glenn C. Blomquist (1976)**
Assistant Professor of Economics
Ph.D., The University of Chicago
- Robert J. Blondin (1977)**
Instructor in Applied Computer Science
M.S., University of Notre Dame
- Barbara L. Blunk (1963)**
Faculty Associate in University High School
M.S., Illinois State University
- John K. Boaz (1965)**
Associate Professor of Information Sciences
Ph.D., Wayne State University
- Mildred M. Boaz (1974)**
Assistant Professor of English
Ph.D., University of Illinois
- Harold L. Bock (1975)**
Staff Physician in the University Health
Service
M.D., University of Illinois
- Walter F. Bock (1966)**
Assistant Professor of Art
M.A., University of California at Berkeley
- Janet M. Boeh (1974)**
Instructor in Health, Physical Education,
Recreation and Dance
M.A., Illinois State University
- James A. Boitos (1971)**
Assistant Professor of Music
M.M., Northwestern University
- Charles W. Bolen (1970)**
Dean of the College of Fine Arts,
Professor of Music
Ph.D., Indiana University
- James W. Bommarito (1967)**
Professor of Special Education
Ed.D., Wayne State University
- Bonnie J. Bondavalli (1972)**
Assistant Professor of Corrections
Ph.D., University of Missouri
- Jacqueline F. Bontemps (1974)**
Assistant Professor of Art
Ed.D., Illinois State University
- David E. Booth (1978)**
Instructor in Finance
M.S., Illinois State University
- Harold J. Born (1961)**
Chairperson of the Department of Physics,
Professor of Physics
Ph.D., Iowa State University
- Marcia L. Bosits (1977)**
Assistant Professor of Music
M.M., Northwestern University
- Robert E. Botsch (1977)**
Assistant Professor of Political Science
Ph.D., The University of North Carolina
at Chapel Hill
- Craig T. Bouchard (1977)**
Faculty Assistant in Economics
B.S., Illinois State University
- Mack L. Bowen (1971)**
Associate Professor of Special Education
Ph.D., University of Illinois
- Fred H. Bowers (1976)**
Tutor in the High Potential Students
Program, Instructor in Mathematics
M.S., Atlanta University
- Sandra L. Bowers (1977)**
Assistant Professor of Social Work
M.S.W., Syracuse University
- Carol H. Bowman (1977)**
Visiting Assistant Professor of Psychology
Ph.D., Wayne State University
- Fay F. Bowren (1969)**
Professor of Education
Ed.D., The University of New Mexico
- Harold E. Boyd (1965)**
Professor of Art
M.F.A., The University of Kansas
- Mary Ann Boyd (1975)**
Faculty Associate in the Metcalf
Elementary School and University
High School
M.A., Illinois State University
- Judith Boyer (1968)**
Associate Dean of Student Affairs
M.A., Illinois State University
- George J. Brabb (1975)**
Chairperson of the Department of
Management and Marketing, Professor
of Management
Ph.D., University of Illinois
- Frank M. Braden (1977)**
Instructor in Management
M.H.A., Georgia State University
- Robert J. Brake (1968)**
Professor of Information Sciences
Ph.D., Michigan State University
- Michele E. Branson (1977)**
Assistant Librarian, Instructor in
Library Science
M.S., University of Illinois
- Robert I. Brawn (1973)**
Adjunct Professor of Genetics
Ph.D., The University of Wisconsin
- Stuart W. Bray (1976)**
Assistant Professor of Elementary
Education
Ed.D., University of Virginia
- Bruce W. Breitweiser (1977)**
Instructor in Accounting
M.S., Illinois State University
- Charlene E. Bremberg (1970)**
Instructor in Health, Physical Education,
Recreation and Dance
M.S. in Ed., Northern Illinois University
- Alma R. Bremer (1950)**
Assistant Professor of Home Economics
A.M., University of Illinois
- Philip R. Brereton (1974)**
Director of Executive and Professional
Development in the College of Business,
Associate Professor of Business
Administration
Ph.D., The University of Wisconsin
- Roger D. Bridges (1974)**
Lecturer in History
Ph.D., University of Illinois
- John E. Briggs (1976)**
Instructor in Mathematics
M.S. in Ed., Illinois State University
- Benton K. Bristol (1965)**
Professor of Agricultural Mechanics
Ed.D., The Pennsylvania State University
- Herman E. Brockman (1963)**
Professor of Genetics
Ph.D., The Florida State University
- Irene T. Brosnahan (1968)**
Associate Professor of English
Ph.D., Georgetown University
- Leger N. Brosnahan (1968)**
Associate Professor of English
Ph.D., Harvard University
- Valerie J. Bross (1976)**
Assistant Librarian, Instructor in
Library Science
M.A.L.S., The University of Michigan
- John F. Brower (1974)**
Assistant Professor of Art
M.F.A., School of the Art Institute
of Chicago
- Betty A. Brown (1977)**
Assistant Professor of Art
M.A., The University of Texas
- Charles L. Brown (1974)**
Coordinator of Student Services in the
High Potential Students Program
M.S. in Ed., Illinois State University
- Edna C. Brown (1964)**
Faculty Associate in Special Education
M.S. in Ed., Illinois State University
- Francis R. Brown (1978)**
Professor of Mathematics
Ed.D., University of Illinois

- Francis R. Brown (1977)**
Visiting Lecturer in Art
B.A., California State University at Los Angeles
- Janice F. Brown (1974)**
Faculty Associate in the Metcalf Elementary School
B.S. in Ed., Illinois State University
- Lauren E. Brown (1967)**
Professor of Vertebrate Zoology
Ph.D., The University of Texas
- Lester E. Brown (1974)**
Associate Professor of Elementary Education
Ph.D., University of Minnesota
- Lynn H. Brown (1960)**
Associate Professor of Mathematics
Ph.D., The University of Iowa
- Mary J. Brown (1967)**
Assistant Librarian, Associate Professor of Library Science
A.M., Indiana University
- R. Elizabeth Brown (1955)**
Professor of Psychology
Ph.D., Northwestern University
- Leonard A. Brubaker (1964)**
Associate Professor of Elementary Education
Ph.D., The Ohio State University
- James F. Brubeck (1956)**
Assistant Professor of Marketing
M.A., Ball State University
- Claire A. Brugger (1977)**
Hall Manager in the Office of Residential Life
B.S. in Ed., West Chester State College
- William R. Brundage (1975)**
Assistant to the Director of Admissions and Records
M.S., Illinois State University
- Michael A. Brunt (1972)**
Associate Professor of Speech Pathology and Audiology
Ph.D., The University of Kansas
- Edward L. Bubnys (1977)**
Instructor in Finance
M.S., University of Illinois
- Clinton R. Bunke (1967)**
Professor of Education
Ph.D., The University of Iowa
- Roger K. Bunting (1966)**
Associate Professor of Chemistry
Ph.D., The Pennsylvania State University
- John R. Burdick (1976)**
Assistant Professor of Bacteriology
Ph.D., Iowa State University
- Lawrence E. Burke (1977)**
Coordinator in the Office of Clinical Experiences in Teacher Education
M.S. in Ed., Illinois State University
- Robert A. Burnham (1976)**
Dean of the College of Education,
Professor of Educational Administration
Ph.D., Stanford University
- Sara C. Burrus (1977)**
Faculty Associate in University High School
M.S. in Ed., Illinois State University
- Lucille L. Buscher (1975)**
Instructor in Special Education
M.S. in Ed., Illinois State University
- Jack K. Buss (1977)**
Faculty Associate in University High School
B.S., Illinois State University
- Ann V. Butler (1975)**
Assistant Professor of Theatre
M.F.A., The University of Iowa
- James D. Butler (1976)**
Associate Professor of Art
M.F.A., The University of Nebraska
- Dale E. Butz (1972)**
Adjunct Professor of Agricultural Economics
Ph.D., University of Minnesota
- J. Andre Cadieux (1973)**
Assistant Professor of Philosophy
Ph.D., University of Minnesota
- Larry L. Cadwell (1973)**
Assistant Professor of Radioecology
Ph.D., Colorado State University
- Jerome R. Cain (1975)**
Assistant Professor of Psychology
Ph.D., University of Connecticut
- Michael M. Calavan (1970)**
Assistant Professor of Anthropology
Ph.D., University of Illinois
- S. Kay Calavan (1973)**
Coordinator of International House Programs,
Assistant Professor of Anthropology
Ph.D., University of Illinois
- Thomas E. Caldwell (1970)**
Professor of Special Education
Ed.D., The University of Kansas
- Wesley C. Calef (1970)**
Professor of Geography
Ph.D., The University of Chicago
- Larry J. Callahan (1978)**
Faculty Assistant in Industrial Technology
B.S., Illinois State University
- Harry L. Campbell (1976)**
Assistant Professor of Industrial Technology
Ph.D., The Ohio State University
- Robert T. Cannell (1976)**
Associate Professor of Special Education
Ed.D., University of Missouri
- R. Jerry Cantlon (1962)**
Professor of Education
Ed.D., University of Colorado
- William R. Cantrall (1975)**
Assistant Professor of Political Science
Ph.D., University of Illinois
- Richard W. Cantrell (1977)**
Instructor in Home Economics
M.S., Brigham Young University
- Janet L. Capodice (1975)**
Faculty Associate in the Metcalf Elementary School
B.S. in Ed., Illinois State University
- Eugene R. Carey (1976)**
Associate Professor of Accounting
Ph.D., The University of Iowa; C.D.P.
- John R. Carlock (1951)**
Associate Professor of Education
(University High School)
M.S. in Ed., Illinois State University
- Patricia H. Carlson (1972)**
Instructor in Business Law
LL.B., University of Illinois
- Charlotte P. Carr (1968)**
Assistant Professor of Home Economics
M.Ed., University of Illinois
- Robin L. Carr (1968)**
Assistant Professor of English
Ph.D., University of Illinois
- Wayne E. Carr (1971)**
Assistant Director of Records
M.A., Columbia University
- Dorothy H. Carrington (1961)**
University Affirmative Action Officer,
Associate Professor of Psychology
Ed.D., The Florida State University
- Conrad E. Carroll (1957)**
Assistant Professor of Mathematics
M.A., Murray State College
- Marian J. Carroll (1970)**
Assistant Librarian, Assistant Professor of Library Science
Ed.S., George Peabody College for Teachers
- Rodney T. Carswell (1972)**
Associate Professor of Art
M.F.A., University of Colorado
- Valjean M. Cashen (1961)**
Professor of Psychology
Ed.D., University of Northern Colorado
Leave of Absence, First Semester, 1977-78 School Year
- Karen A. Cassens (1974)**
Instructor in Special Education
M.S. in Ed., Wisconsin State University (Whitewater)
- Richard J. Cebula (1976)**
Associate Professor of Economics
Ph.D., Georgia State University
- Donald V. Chalmers (1974)**
Assistant Professor of Psychology
Ph.D., The Pennsylvania State University
- Merritt M. Chambers (1966)**
Professor of Educational Administration
Ph.D., The Ohio State University
- Roger J. Champagne (1960)**
Professor of History
Ph.D., The University of Wisconsin
- Beverly K. Chance (1976)**
Assistant Professor of Industrial Technology
M.S. in Ed., Southern Illinois University
- Gordon L. Chapman (1974)**
Associate Professor of Accounting
D.B.A., Arizona State University; C.P.A.
- Nancy L. Chapman (1968)**
Assistant Professor of Health, Physical Education, Recreation and Dance
M.A., The Ohio State University
- Robert M. Chasson (1965)**
Associate Professor of Botany
Ph.D., University of Missouri
- Ramesh Chaudhari (1977)**
Instructor in Educational Administration
M.S., The University of Iowa
- Aristides B. Chavez, Jr. (1972)**
Assistant Professor of Music
M.M., The University of New Mexico
- Carl C. Chen (1978)**
Assistant Professor of Economics
Ph.D., Iowa State University
- Patricia A. Chesebro (1963)**
Associate Professor of Psychology
Ph.D., University of Illinois
- Terry L. Childers (1973)**
Instructor in Quantitative Methods
M.S., Illinois State University
- Frank T. Chiodo (1963)**
Associate Professor of Health, Physical Education, Recreation and Dance
(University High School)
Ed.D., University of Southern Mississippi
- John F. Chizmar, Jr. (1971)**
Associate Professor of Economics
Ph.D., Boston College
- David K. Y. Chow (1975)**
Adjunct Associate Professor of Allied Health Professions
M.D., Kaohsiung Medical College (Taiwan)
- Kenneth L. Christensen (1977)**
Lecturer in Applied Computer Science
B.Th., Minnesota Bible College; C.D.P.
- Richard L. Christensen (1974)**
Assistant Librarian, Assistant Professor of Library Science
M.A., The University of Iowa
- Wilbur W. Chrudimsky (1970)**
Associate Professor of Plant and Soil Science
Ph.D., Oklahoma State University
- Tsan-lang Chuang (1967)**
Professor of Botany
Ph.D., University of California at Berkeley
- Hoon M. Chung (1970)**
Associate Professor of Political Science
Ph.D., University of Pennsylvania
- R. James Clack (1970)**
Associate Director of the Student Counseling Services, Associate Professor of Education
Ph.D., Purdue University
- Gary J. Clark (1969)**
Assistant Professor of Chemistry
Ph.D., University of Utah
- Judith O. Clark (1977)**
Instructor in Special Education
M.S., Illinois State University
- Margaret E. Clark (1977)**
Assistant Librarian, Instructor in Library Science
M.S., University of Illinois
- Stanley R. Clemens (1968)**
Associate Professor of Mathematics
Ph.D., University of North Carolina
Leave of Absence, First Semester, 1977-78 School Year

- A. Kay Clifton (1968)**
Associate Professor of Sociology
Ph.D., The University of Iowa
Leave of Absence, First Semester,
1977-78 School Year
- R. Eloise Cline (1969)**
Assistant Librarian, Assistant Professor
of Library Science
M.S., University of Illinois
- James S. Cloyd (1977)**
Faculty Assistant in Chemistry
B.S., Illinois State University
- Donald J. Cochran (1972)**
Counselor in the Student Counseling
Services, Assistant Professor of Education
Ph.D., The University of Arizona
- James D. Coe (1967)**
Assistant Professor of Education
M.A., Clarke College
- John P. Coffey (1973)**
Instructor in Management
M.B.A., Eastern Illinois University
- Felissa L. Cohen (1977)**
Director of Nursing Feasibility Study,
Visiting Associate Professor of
Allied Health Professions
Ph.D., Illinois State University
- Ira Cohen (1965)**
Associate Professor of History
Ph.D., New York University
- Raymond L. Cohn (1977)**
Assistant Professor of Economics
Ph.D., University of Oregon
- Betty J. Cole (1974)**
Assistant Professor of Microbiology
Ph.D., The University of Nebraska
- Garold L. Cole (1968)**
Assistant Librarian, Associate Professor
of Library Science
M.L.S., The University of Oklahoma
- David J. Colee (1973)**
Admissions Counselor in the Office of
Admissions and Records
B.S. in Ed., Illinois State University
- James E. Collie (1957)**
Professor of Health, Physical Education,
Recreation and Dance
P.E.D., Indiana University
- Regina B. Colvin (1969)**
Coordinator in Academic Advisement
M.S. in Ed., Indiana University
- William E. Colvin (1971)**
Coordinator of Ethnic and Cultural Studies,
Associate Professor of Art
Ed.D., Illinois State University
- Thomas E. Cornfort (1965)**
Professor of French
Ph.D., University of Illinois
- Susan J. Conover (1977)**
Instructor in Information Sciences
M.S., Southern Illinois University
- Robert K. Conyne (1971)**
Counselor in Student Counseling Services,
Associate Professor of Education
Ph.D., Purdue University
- Janet M. Cook (1968)**
Assistant Professor of Mathematics
M.A., University of California at Berkeley
- Ronald L. Cook (1962)**
Associate Professor of Chemistry
M.S. in Ed., Western Illinois University
- Roque J. Cordero (1972)**
Professor of Music
B.A., Hamline University
- Arthur B. Corra (1971)**
Professor of Music
Mus.D., Indiana University
- Maurine J. Corsaut (1972)**
Assistant Professor of Allied Health
Professions
M.S. in Ed., Illinois State University
- Peter D. Couch (1970)**
Professor of Management
Ph.D., The University of Wisconsin
Leave of Absence, Second Semester,
1977-78 School Year
- Charles J. Coughlan (1977)**
Head Track Coach
M.S. in Ed., Northern Illinois University
- Donald W. Coven (1976)**
Faculty Assistant in Health, Physical
Education, Recreation and Dance
B.S., University of Illinois
- Charles E. Cowdrey (1976)**
Head Football Coach
M.Ed., University of Missouri
- Carleton W. Cox (1975)**
Instructor in Geography
M.S., The University of Wisconsin
- Carrol B. Cox (1961)**
Assistant Professor of English
Ph.D., The University of Michigan
- Michael A. Cox (1977)**
Faculty Assistant in Accounting
B.S., Illinois State University
- Steven G. Cox (1976)**
Assistant Professor of Corrections
Ph.D., The University of Iowa
- James F. Cradler (1971)**
Assistant Professor of Russian
M.A., Cornell University
- Virginia R. Crafts (1967)**
Professor of Health, Physical Education,
Recreation and Dance
Ed.D., Columbia University
- John F. Cragan (1973)**
Acting Chairperson of the Department of
Information Sciences, Associate Professor
of Information Sciences
Ph.D., University of Minnesota
- John C. Cralley (1963)**
Assistant Professor of Zoology
Ph.D., University of Illinois
- Kenneth J. Crepas (1970)**
Associate Professor of Insurance
Ph.D., The University of Iowa
- Gregory S. Crespi (1978)**
Assistant Professor of Economics
M.S., George Washington University
- John E. Crew (1963)**
Professor of Physics
Ph.D., University of Illinois
- Warren S. Crews (1951)**
Athletic Administrative Assistant,
Assistant Professor of Health, Physical
Education, Recreation and Dance
M.S. in Ed., Illinois State University
- Robert L. Crist (1962)**
Professor of Psychology
Ph.D., Purdue University
- Barbara J. Crooks (1974)**
Hall Manager in the Office of Residential
Life
B.S. in Ed., Illinois State University
- Eric I. Crooks (1975)**
Assistant Professor of Sociology
M.S.W., University of Illinois
- Janet S. Cross (1975)**
Instructor in Special Education
M.S. in Ed., Northern Illinois University
- Jerald J. Cross (1977)**
Faculty Associate in University High School
M.S. in Ed., Illinois State University
- John H. Crotts (1968)**
Professor of Elementary Education
Ed.D., University of Missouri
- Harold D. Crouse (1976)**
Dean, College of Continuing Education and
Public Service
Ph.D., The University of Wisconsin
- Norton B. Crowell (1969)**
Professor of English
Ph.D., Harvard University
- Mary S. Crumley (1974)**
Faculty Assistant in Elementary Education
A.M., The University of Chicago
- Richard D. Crumley (1962)**
Associate Professor of Mathematics
Ph.D., The University of Chicago
- Robert G. Culbertson (1976)**
Chairperson of the Department of
Corrections, Associate Professor of
- Corrections
Ph.D., University of Cincinnati
- Alfred A. Culver (1961)**
Professor of Animal Science
Ph.D., Purdue University
- Charles W. Cummings (1977)**
Faculty Assistant in Accounting
B.S., Illinois State University, C.P.A.
- Mary M. Cummings (1977)**
Instructor in Special Education
M.A., DePaul University
- George E. Cunningham (1973)**
Assistant Professor of History
M.S., The University of Wisconsin
- Farnela Brueckner Cuppini (1976)**
Assistant Professor of Art
M.F.A., Rochester Institute of Technology
- Valerie H. Curran (1976)**
Faculty Associate in the Metcalf
Elementary School
B.S. in Ed., Northern Illinois University
- Diana M. Curtino (1975)**
Assistant Professor of Elementary
Education
Ed.D., Northern Illinois University
- Dade T. Curtis (1974)**
Assistant Librarian, Assistant Professor
of Library Science
M.S., Simmons College
- Richard H. Dammers (1971)**
Associate Professor of English
Ph.D., University of Notre Dame
- E. Dan Dankoski (1976)**
Admissions Counselor in the Office
of Admissions and Records
B.S., Illinois State University
- Frank P. Daroca (1978)**
Assistant Professor of Accounting
M.S., University of New Orleans, C.P.A.
- Keith C. Davidson (1959)**
Assistant Professor of Speech Pathology
and Audiology
M.A., Columbia University
- Donald E. Davis (1964)**
Associate Professor of History
Ph.D., Indiana University
Leave of Absence, Second Semester,
1977-78 School Year
- F. James Davis (1971)**
Professor of Sociology
Ph.D., The University of Iowa
Leave of Absence, Second Semester,
1976-77 School Year
- Michael S. Davis (1977)**
Assistant Professor of Philosophy
Ph.D., The University of Michigan
- Veronica G. Davis (1975)**
Tutor in the High Potential Students
Program, Instructor in English
M.A., Atlanta University
- Roberta J. Davis (1977)**
Coordinator in the Office of Clinical
Experiences in Teacher Education
B.S. in Ed., Illinois State University
- Wilbert D. Davis, Jr. (1972)**
Assistant Track Coach, Instructor in
Health, Physical Education, Recreation
and Dance
M.A. in Ed., Eastern Kentucky University
- Julian Dawson (1975)**
Visiting Lecturer in Music
Mus.B., Dublin University (Ireland)
- Robert E. Dean (1976)**
Instructor in Finance
M.S., Illinois State University
- Tella Marie DeBose (1968)**
Associate Professor of Music
M.Mus., Oberlin Conservatory of Music
- Bernard B. deGrandpre (1973)**
Assistant Professor of Special Education
Ph.D., Syracuse University
- Carole S. deGrandpre (1974)**
Instructor in Elementary Education
M.S., Syracuse University

- P. Jay Delmar (1976)**
Instructor in English
M.A., Illinois State University
- Dianne S. DeLong (1967)**
Assistant Librarian, Assistant Professor
of Library Science
Cert. Adv. St., University of Denver
- Douglas A. DeLong (1967)**
Assistant Librarian, Assistant Professor
of Library Science
Cert. Adv. St., University of Denver
- Michael J. DeLoose (1976)**
Instructor in Economics
M.S., Illinois State University
- Chris G. Dematatis (1977)**
Counselor in Student Counseling
Services
M.Ed., University of New Hampshire
- Michael J. Devaney (1975)**
Assistant Professor of Mathematics
Ph.D., Columbia University
- C. Lynn Devore (1977)**
Assistant Professor of English
Ph.D., The University of Tulsa
- Lynn D. Devore (1977)**
Instructor in Marketing
M.B.A., Eastern Illinois University
- Janet A. DiClaudio (1976)**
Lecturer in Medical Records Administration
B.A., Thiel College
- Louise E. Dieterle (1969)**
Director of Clinical Experiences in Teacher
Education, Professor of Educational
Administration
Ed.D., Loyola University
- Eleanor Dilks (1952)**
Professor of Zoology
Ph.D., The University of Wisconsin
- Alan E. Dillingham (1976)**
Assistant Professor of Economics
M.A., The University of Texas
- Robert T. Dirks (1971)**
Associate Professor of Anthropology
Ph.D., Case Western Reserve University
- Paul F. Dohrmann (1961)**
Professor of Health, Physical Education,
Recreation and Dance (Metcall Elementary
School)
Ph.D., The University of Iowa
- Cynthia A. Donovan (1975)**
Head Teacher, Fairchild Day Care Center
B.S. in Ed., Illinois State University
- Edmund T. Dornier (1967)**
Assistant Professor of Industrial Technology
Ph.D., University of Illinois
- Roberta E. Dortch (1973)**
Faculty Associate in University High School
B.S. in Ed., Illinois State University
- John A. Dossey (1967)**
Associate Professor of Mathematics
Ph.D., University of Illinois
- Leven M. Dowdall (1957)**
Assistant Professor of Industrial Technology
M.S. in Ed., Illinois State University
- Barbara A. Drake (1977)**
Lecturer in Corrections
B.A., Bradley University
- Pauline S. Drawver (1956)**
Associate Professor of English
Ph.D., University of Illinois
- Thomas A. Droleskey (1977)**
Assistant Professor of Political Science
Ph.D., State University of New York at Albany
- Craig A. Dudczak (1975)**
Instructor in Information Sciences
M.A., Eastern Illinois University
- Penelope H. Duffee (1977)**
Instructor in Speech Pathology and Audiology
M.S., Illinois State University
- Timothy J. Duffy (1975)**
Instructor in Accounting
M.A., Illinois State University
- Wendy P. Duffy (1977)**
Instructor in Accounting
M.A., Illinois State University
- Elaine E. Dunbar (1968)**
Coordinator in Academic Advisement
M.S., Illinois State University
- Robert L. Duncan (1961)**
Associate Professor of English
Ph.D., Indiana University
- David S. Dunn (1977)**
Instructor in Law
J.D., John Marshall Law School
- Robert C. Duty (1963)**
Professor of Chemistry
Ph.D., The University of Iowa
- Christine N. Eakins (1977)**
Instructor in Management and Marketing
M.A., Michigan State University
- Leo E. Eastman (1954)**
Associate Secretary of the University,
Professor of Education
Ed.D., The University of North Dakota
- William W. Easton (1964)**
Assistant Librarian, Assistant Professor
of Library Science
M.A., University of Denver
- Scott C. Eatherly (1962)**
Assistant Professor of English
M.S., The University of Wisconsin
- David C. Eaton (1969)**
Associate Professor of Sociology
Ph.D., The University of Texas
- Albert H. Eckert (1955)**
Assistant Professor of Mathematics
(University High School)
M.S., University of Illinois
- Donald W. Eckrich (1977)**
Associate Professor of Marketing
D.B.A., University of Kentucky
- Orlyn P. Edge (1966)**
Associate Professor of Mathematics
Ph.D., The University of Iowa
- Charles W. Edwards (1964)**
Professor of Educational Administration
Ph.D., The University of Iowa
- Clifford H. Edwards (1968)**
Professor of Education
Ed.D., University of Utah
- Dorothy L. Edwards (1976)**
Coordinator of Academic Services in
the High Potential Students Program
M.A., North Carolina Central University
- Philip P. Edwards (1965)**
Assistant Professor of Physics
M.A., George Peabody College for Teachers
- Thomas F. Edwards (1957)**
Professor of Elementary Education
Ed.D., Michigan State University
- Elwood F. Egelston (1962)**
Professor of Educational Administration
Ed.D., University of Oregon
- Lawrence C. Eggan (1968)**
Professor of Mathematics
Ph.D., University of Oregon
- Walter A. Eggert (1975)**
Visiting Professor of Management
Ph.D., The University of Chicago
- Ray E. Eiben (1967)**
Professor of Education
Ph.D., The Ohio State University
- Bernard Eichen (1975)**
Professor of Music
Curtis Institute of Music
- Carl B. Eichstaedt (1973)**
Assistant Professor of Health, Physical
Education, Recreation and Dance
Ph.D., The University of New Mexico
- Donna R. Eichstaedt (1976)**
Faculty Assistant in History
B.S., Illinois State University
- Ann Marie Eike (1977)**
Assistant Professor of Economics
A.M., University of Missouri
- Thomas E. Eimermann (1970)**
Associate Professor of Political Science
Ph.D., University of Illinois
- Carl J. Ekberg (1970)**
Assistant Professor of History
Ph.D., Rutgers University
Leave of Absence, Second Semester,
1977-78 School Year
- Steven E. Ekeberg (1977)**
Counselor in Student Counseling
Services
B.S., Illinois State University
- Ann H. Elder (1975)**
Assistant Professor of Political Science
M.A., University of Illinois
- Thomas Ellsworth (1977)**
Assistant Professor of Corrections
M.A., John Jay College of Criminal Justice
- Mary L. Emmerich (1977)**
House Manager in the Office of
Residential Life
B.S., Illinois State University
- Doris C. Emmett (1977)**
Instructor in English
M.S., Illinois State University
- Pamela J. Emmett (1975)**
Faculty Associate in University High School
B.S. in Ed., Illinois State University
- Edna E. Engberg (1951)**
Assistant Professor of Health, Physical
Education, Recreation and Dance
(Metcall Elementary School)
M.Ed., The University of Michigan
- Terry J. Engle (1977)**
Instructor in Accounting
M.S., Illinois State University; C.P.A.
- William G. Erf (1977)**
Faculty Assistant in Art
B.F.A., The Ohio State University
- Donald H. Erickson (1969)**
Associate Professor of English
Ph.D., University of Illinois
- Nickolas J. Ernest (1969)**
Assistant Professor of Art
M.A.T., Indiana University
- Marcia S. Escott (1966)**
Coordinator in Academic Advisement
M.A., Ball State University
- John M. Ewing (1969)**
Professor of Elementary Education
Ed.D., The University of Nebraska
- Henry O. Falb (1975)**
Instructor in Accounting
M.S., Illinois State University
- Nina Falk (1977)**
Instructor in Music
B.M., Oberlin Conservatory
- Lloyd W. Farlee (1962)**
Professor of Music
Ph.D., The University of Iowa
- Louise Farmer (1951)**
Assistant Professor of Elementary
Education (Metcall Elementary
School)
M.S. in Ed., University of Illinois
- William M. Farnsworth (1976)**
Area Coordinator in the Office of
Residential Life
Sp. in Ed., Drake University
- E. Josephine Faulmann (1973)**
Instructor in Music
M.M., The University of Michigan
- Roger R. Faulmann (1967)**
Assistant Professor of Music
M.M., The University of Michigan
- Katherine M. Faust (1976)**
Assistant Librarian, Instructor in
Library Science
M.A., The University of Wisconsin
- Phyllis L. Faaster (1970)**
Instructor in English
M.S. in Ed., Illinois State University
- Ethel G. Feicke (1962)**
Coordinator of Advising for General and
Unclassified Students, Assistant
Professor of Education
M.S. in Ed., Illinois State University
- Marilyn E. Feldman (1976)**
Assistant Volleyball Coach
M.S. in Ed., Northern Illinois University

- A. Gordon Ferguson (1964)**
Associate Professor of Spanish
Ph.D., The University of Nebraska
- Ronald H. Ferguson (1975)**
Assistant Director of Intercollegiate Athletics, Assistant Basketball Coach
M.S., University of Illinois
- John W. Ferrell (1961)**
Professor of Music
Ph.D., The University of Iowa
- O. C. Ferrell (1974)**
Associate Professor of Marketing
Ph.D., Louisiana State University
- Edmund F. Ficek (1966)**
Professor of Business Law
J.D., University of Illinois; C.L.U.
- Eileane H. Fielding (1961)**
Assistant Professor of English (University High School)
M.S. in Ed., Illinois State University
- Richard D. Finch (1977)**
Assistant Professor of Art
M.F.A., Southern Illinois University
- Frederic N. Firestone (1970)**
Professor of Economics
Ph.D., The University of Wisconsin
- Lois C. Firestone (1974)**
Special Service Center Nurse in the University Health Service
B.S., Simmons College
- Gary L. Fish (1966)**
Associate Professor of Accounting
Ed.D., University of Illinois; C.P.A.
- Judith A. Fish (1974)**
Advisor in Academic Advisement
M.Ed., University of Illinois
- Robert J. Fisher (1975)**
Assistant Professor of Mathematics
Ph.D., Harvard University
- Robert L. Fisher (1973)**
Associate Professor of Education
Ed.D., The University of Nebraska
- Kenneth L. Fitch (1963)**
Associate Professor of Anatomy
Ph.D., The University of Michigan
Leave of Absence, First Semester, 1977-78 School Year
- Thomas C. Fitch (1969)**
Associate Professor of Elementary Education
Ph.D., Michigan State University
Leave of Absence, Second Semester, 1977-78 School Year
- William G. Flanagan (1973)**
Assistant Basketball Coach
M.A. in Ed., East Carolina University
- Sarah C. Flood (1977)**
Visiting Lecturer in Art
B.F.A., School of Art Institute of Chicago
- George P. Foeller (1960)**
Associate Professor of Music
M.A., University of Connecticut
- Alan T. Folkens (1971)**
Adjunct Professor of Allied Health Professions and Part-time Professor of Biological Sciences
Ph.D., The University of South Dakota
- Flora H. Foltz (1968)**
Assistant Professor of Special Education
M.S. in Ed., Southern Illinois University
- Sue A. Fones (1975)**
House Manager in the Office of Residential Life
M.S., Illinois State University
- Nancy G. Foote (1977)**
Instructor in Home Economics
M.S., University of North Carolina
- J. Anne Foreman (1958)**
Associate Professor of French (Metcalf Elementary School)
Ph.D., University of Colorado
- George W. Forgey (1967)**
Chairperson of the Department of Agriculture, Professor of Agricultural Mechanics
Ph.D., Illinois State University
- Carol J. Fox (1972)**
Instructor in Home Economics
M.S., Illinois State University; R.D.
- Charles P. Frahm (1968)**
Professor of Physics
Ph.D., Georgia Institute of Technology
Leave of Absence, Second Semester, 1977-78 School Year
- Audrey B. Francis (1966)**
Assistant Professor of Elementary Education
M.A., The University of Iowa
- Charles E. Francis (1966)**
Associate Professor of Industrial Technology
Ed.D., University of Missouri
- Lynda S. Frankeberger (1969)**
Faculty Associate in University High School
M.S., Illinois State University
- Dorothy K. Franks (1973)**
Assistant Professor of Education
Ph.D., University of Illinois
- Keith M. Fred (1967)**
Director of Campus Recreation
Ed.D., University of Southern Mississippi
- John B. Freed (1969)**
Associate Professor of History
Ph.D., Princeton University
- Louis G. Freeman (1976)**
Principal of the Metcalf Elementary School
M.Ed., University of Illinois
- John L. Frehn (1962)**
Professor of Physiology
Ph.D., The Pennsylvania State University
- Ruth M. Freyberger (1951)**
Professor of Art
Ed.D., The Pennsylvania State University
- Ruth Ann C. Friedberg (1977)**
Instructor in Mathematics
M.A.T., Northwestern University
- Stephen H. Friedberg (1970)**
Associate Professor of Mathematics
Ph.D., Northwestern University
Leave of Absence, First Semester, 1977-78 School Year
- Walter H. Friedhoff (1958)**
Professor of Psychology
Ph.D., The University of Iowa
- Leo H. Frigo (1966)**
Staff Physician in the University Health Service
M.D., Chicago Medical School
- William Frinsko (1961)**
Professor of Elementary Education
Ed.D., Wayne State University
- David J. Fritzsche (1977)**
Associate Professor of Marketing
D.B.A., Indiana University
- Bodo Fritzen (1969)**
Associate Professor of German
Ph.D., The University of Nebraska
- Hui-Hsing Fu (1975)**
Assistant Professor of Physics
Ph.D., The Ohio State University
- William D. Fuehrer (1963)**
Associate Professor of German
Ph.D., The University of Michigan
Leave of Absence, Second Semester, 1977-78 School Year
- Joel M. Fuerst (1976)**
Instructor in Management
M.B.A., Columbia University
- Frederick W. Fuess (1963)**
Professor of Plant and Soil Science
Ph.D., Michigan State University
Leave of Absence, Second Semester, 1977-78 School Year
- Robert W. Funk (1970)**
Assistant Professor of English
Ph.D., University of Illinois
- Leima I. Gaigalas (1974)**
Instructor in Foreign Languages
Doctor of the University of Languages and Literature, Grenoble (France)
- Timothy J. Gallagher (1977)**
Assistant Professor of Finance
M.S., University of Illinois
- Wayne H. Galler (1970)**
Assistant Professor of Elementary Education
Ph.D., The University of Wisconsin
- Neal R. Gamsky (1970)**
Vice President and Dean of Student Affairs, Professor of Psychology
Ph.D., The University of Wisconsin
- Eddie L. Ganaway (1975)**
Assistant Professor of History
M.A., Duke University
- Dennis L. Garrison (1977)**
Faculty Assistant in Accounting
M.S., Illinois State University
- Thomas F. Gaye (1977)**
Instructor in Information Sciences
M.A., University of California at Santa Barbara
- Raymond E. George (1970)**
Professor of Art
M.A. in Ed., University of Northern Iowa
- Lucia C. Getsi (1973)**
Assistant Professor of English
Ph.D., Ohio University
- Linda A. Giesen (1978)**
Lecturer in Corrections
M.S., Indiana State University
- Noel C. Gill (1970)**
Associate Professor of Psychology
Ph.D., University of Minnesota
- David C. Gilmore (1974)**
Assistant Professor of Psychology
Ph.D., The Ohio State University
- Hal M. Gilmore (1956)**
Assistant Professor of Mathematics
M.A., Western Kentucky University
- Victor E. Gimmestad (1948)**
Professor of English
Ph.D., The University of Wisconsin
Leave of Absence, Second Semester, 1977-78 School Year
- Gerald L. Girard (1969)**
Associate Director of Records
M.S., Illinois State University
- George Girardi, Jr. (1963)**
Associate Professor of Health, Physical Education, Recreation and Dance (University High School)
P.E.D., Indiana University
- William J. Gnagoy (1961)**
Director of Educational Research Services, Professor of Psychology
Ph.D., Wayne State University
- Maunis E. Godbey (1977)**
Staff Physician in the University Health Service
M.D., State University of Iowa
- Richard Godfrey (1962)**
Director of Public Affairs
B.S. in Ed., Illinois State University
- Barbara L. Goebel (1965)**
Assistant Professor of Psychology
Ph.D., University of Illinois
Leave of Absence, Second Semester, 1977-78 School Year
- John T. Goeldi (1967)**
Professor of Elementary Education
Ph.D., Michigan State University
- Norman S. Goldberg (1977)**
Assistant Professor of English
Ph.D., Princeton University
- Alvin Goldfarb (1977)**
Assistant Professor of Theatre
M.A., The City University of New York (Hunter College)
- Paul G. Goldman (1977)**
Lecturer in Corrections
M.A., Bradley University
- Melvin A. Goldstein (1971)**
Assistant Professor of Psychology
Ph.D., Rutgers University

- Robert C. Goodall (1967)**
Associate Professor of Elementary Education
Ed.D., Indiana University
Leave of Absence, Second Semester, 1977-78 School Year
- Philip R. Goodwin (1973)**
Faculty Associate in University High School
M.S. in Ed., Illinois State University
- R. Dwaine Goodwin (1969)**
Assistant Professor of Health, Physical Education, Recreation and Dance
M.R.Ed., Brigham Young University
- George J. Gordon (1970)**
Assistant Professor of Political Science
Ph.D., Syracuse University
Leave of Absence, First Semester, 1977-78 School Year
- Russell D. Gorman (1976)**
Chairperson of the Department of Health, Physical Education, Recreation and Dance, Professor of Physical Education
P.E.D., Indiana University
- Michael J. Gorr (1976)**
Assistant Professor of Philosophy
Ph.D., Brown University
- Donna K. Gorrell (1974)**
Tutor in the High Potential Students Program, Instructor in English
M.A., Illinois State University
- Iris F. Gottlieb (1971)**
Instructor in Special Education
M.A., Northwestern University
- Laura E. Gowdy (1967)**
Assistant Librarian, Assistant Professor of Library Science
M.S., University of Illinois
- Julie Gowen (1972)**
Assistant Professor of Philosophy
Ph.D., The University of Wisconsin
- Joseph L. Grabill (1968)**
Professor of History
Ph.D., Indiana University
- Ardelle Graef (1971)**
Associate Professor of Elementary Education
Ph.D., The University of Wisconsin
- Maudie L. Graham (1977)**
Instructor in Information Sciences
M.A., University of Northern Colorado
- Michael G. Gratchner (1973)**
Instructor in English
M.S., Illinois State University
- Cornell Grant (1977)**
Tutor in the High Potential Students Program, Instructor in Mathematics
M.S., Atlanta University
- Charles E. Gray, Jr. (1959)**
Professor of History
Ed.D., University of Illinois
- Daniel F. Graybill (1977)**
Counselor in Student Counseling Services, Assistant Professor of Psychology
Ph.D., Vanderbilt University
- Denise G. Green (1976)**
Visiting Lecturer in Art
M.F.A., Hunter College
- Randall L. Green (1975)**
Auditorium Manager
B.A., Southern Illinois University
- Geraldine A. Greenlee (1970)**
Associate Professor of Health, Physical Education, Recreation and Dance
Ph.D., University of Oregon
- Glen E. Greeneth (1960)**
Assistant Professor of Physics
M.A., Washington University
- Harold L. Gregor (1970)**
Professor of Art
Ph.D., The Ohio State University
- Ivo P. Greif (1961)**
Professor of Elementary Education
Ed.D., Wayne State University
- Glenn A. Grever (1965)**
Assistant Professor of English
Ph.D., University of Illinois
- Jean M. Grever (1963)**
Associate Professor of Business Education and Administrative Services
Ed.D., Northern Illinois University
- Brenda S. Griffin (1974)**
Assistant Professor of Sociology
M.A., Drake University
- Charles T. Griffin (1974)**
Assistant Professor of Sociology
Ph.D., Iowa State University
- Jim L. Grimm (1974)**
Associate Professor of Marketing
D.B.A., Kent State University
- Glenn S. Gritzmacher (1962)**
Assistant Librarian, Associate Professor of Library Science
C.A.S., University of Illinois
- Elizabeth L. Gruber (1975)**
Assistant Professor of Medical Records Administration
M.S. in Ed., Illinois State University
- Audrey J. Grupe (1968)**
Associate Professor of Psychology
Ph.D., University of Illinois
- Stanley E. Grupp (1957)**
Professor of Sociology
Ph.D., Indiana University
- John A. Gueguen (1972)**
Associate Professor of Political Science
Ph.D., The University of Chicago
- Ralph A. Guthrie (1973)**
Assistant Professor of Agricultural Education
M.S., University of Illinois
- Stanley D. Gutzman (1970)**
Assistant Librarian, Assistant Professor of Library Science
M.A., University of Denver
- Lois A. Guyon (1977)**
Lecturer in Corrections
M.S., DePaul University
- Kwang-Chul Ha (1967)**
Associate Professor of Mathematics
Ph.D., The University of North Carolina
- Wesley R. Habley (1970)**
Director of Academic Advisement
M.Ed., University of Illinois
- Bessie D. Hackett (1969)**
Professor of Home Economics
Ed.D., University of Illinois
- William W. Haddad (1970)**
Associate Professor of History
Ph.D., The Ohio State University
Leave of Absence, Second Semester, 1977-78 School Year
- Helen J. Hadden (1976)**
Associate Professor of Special Education
Ed.D., University of Northern Colorado
- Dean S. Hage (1959)**
Professor of Special Education
Ph.D., The University of Iowa
- Virginia R. Hager (1966)**
Assistant Professor of Elementary Education
M.S. in Ed., Illinois State University
- J. Willard Hain (1970)**
Faculty Associate in Special Education
M.A., Northwestern University
- M. Lynelle Hale (1976)**
Assistant Professor of Home Economics
Ph.D., Texas Woman's University
- Ronald S. Halinski (1968)**
Professor of Education
Ph.D., The University of Iowa
- John D. Hall (1970)**
Associate Professor of Business Education and Administrative Services
Ed.D., Texas Tech University
- Joye K. Hall (1977)**
Assistant Principal, Faculty Associate in University High School
M.S. in Ed., Illinois State University
- James A. Hallam (1966)**
Chairperson of the Department of Accounting, Professor of Accounting
Ph.D., The University of Iowa, C.D.P.
- Raphael M. Haller (1976)**
Associate Professor of Speech Pathology and Audiology
Ph.D., Northwestern University
- Roger E. Hallstein (1975)**
Assistant Professor of Environmental Health
Ph.D., University of Cincinnati
- Terrence C. Halpin (1977)**
Assistant Professor of Economics
M.S., Xavier University
- Charles T. Hamilton (1976)**
Assistant Professor of Accounting
M.A.S., University of Illinois; C.P.A.
- Tong Il Han (1971)**
Professor of Music
M.S., Juillard School of Music
Leave of Absence, First Semester, 1977-78 School Year
- C. Vernon Hanks (1976)**
Faculty Assistant in Industrial Technology
B.S. in Ed., Illinois State University
- Manfred Hannemann (1974)**
Assistant Professor of Geography
Ph.D., The University of Chicago
- Maria F. Hannemann (1976)**
Instructor in Mathematics
M.A., Andrews University
- John C. Hansen (1976)**
Assistant Director of Admissions
M.S. in Ed., Indiana University
- John F. Hansen (1972)**
Associate Professor of Chemistry
Ph.D., Duke University
- Warren R. Harden (1954)**
Assistant Vice President, Director of Institutional Research and Computer Operations, Professor of Economics
Ph.D., Indiana University
- Nona R. Hardimon (1977)**
Faculty Associate in the Metcalf Elementary School
B.S. in Ed., Illinois State University
- Doris M. Hardine (1947)**
Assistant Professor of Music
M.M., Eastman School of Music
- Douglas A. Hardwick (1977)**
Assistant Professor of Psychology
Ph.D., University of Virginia
- Sandra D. Harmon (1971)**
Instructor in History
M.A., Illinois State University
- V. Carolyn Harper (1968)**
Assistant Professor of Information Sciences
Adv. M.L.S., The Florida State University
- Archibald Harris (1957)**
Head Swimming Coach, Assistant Professor of Health, Physical Education, Recreation and Dance
M.A., The University of Iowa
- Charles B. Harris (1968)**
Associate Professor of English
Ph.D., Southern Illinois University
Leave of Absence, Second Semester, 1977-78 School Year
- Elizabeth L. Harris (1970)**
Assistant Director of Measurement and Evaluation and Research Consultant in Research Consulting Services
Ph.D., University of Illinois
- Otto D. Harris (1967)**
Assistant Professor of Art
M.A., Columbia University
- Victoria A. Harris (1973)**
Assistant Professor of English
Ph.D., University of Illinois
- Frank Harrison (1974)**
Dean of the College of Business, Professor of Management
Ph.D., The University of Washington
- Monique A. Harrison (1974)**
Assistant Professor of Management
Ph.D., Illinois State University
- Richard R. Hart (1961)**
Associate Professor of Geology
Ph.D., The University of Iowa

- W. Douglas Hartley (1954)**
Professor of Art
Ph.D., New York University
- Mostafa F. Hassan (1968)**
Professor of Economics
Ph.D., The University of Wisconsin
- Robert G. Hathway (1966)**
Associate Professor of Mathematics
Ph.D., The University of Wisconsin
- Preston A. Hawks (1977)**
Research Associate in Archeology
B.S., Illinois State University
- Margaret B. Hayden (1967)**
Assistant Professor of Home Economics
M.S., Ohio University
- Patricia B. Haynes (1968)**
Faculty Associate in Sociology
M.S., Illinois State University
- Vincent Hazleton, Jr. (1976)**
Assistant Professor of Information Sciences
Ph.D., The University of Oklahoma
- Jacqueline R. Head (1977)**
Lecturer in Industrial Technology
Illinois State University
- Doreen B. Heard (1977)**
Assistant Professor of Theatre
M.F.A., The University of North Carolina
at Greensboro
- G. Louis Heath (1969)**
Associate Professor of Education
Ph.D., University of California at Berkeley
- John M. Heissler, Jr. (1961)**
Professor of English
Ph.D., University of Illinois
- Arlan C. Helgeson (1951)**
Professor of History
Ph.D., The University of Wisconsin
- Candace A. Helgeson (1958)**
Assistant Professor of English
A.M., University of Illinois
- Dolores A. Hellweg (1965)**
Associate Professor of Health, Physical
Education, Recreation and Dance
(Metcalfe Elementary School)
Ph.D., The University of Wisconsin
- Robert E. Hemenway (1964)**
Professor of Special Education
Ed.D., Boston University School of
Education
- Doris E. Henderson (1966)**
Assistant Professor of Health, Physical
Education, Recreation and Dance
M.A., Northwestern University
- Dennis R. Henry (1977)**
Assistant Professor of Philosophy
B.S., Ball State University
- Reginald D. Henry (1969)**
Professor of Agricultural Mechanics
Ph.D., University of Missouri
- Richard J. Hentz (1967)**
Associate Professor of Art
M.F.A., Northern Illinois University
- Roger E. Herbets (1963)**
Associate Professor of Industrial Technology
Ed.D., University of Illinois
- Peter A. Herdklotz (1976)**
Instructor in Accounting
M.S. in Ed., Northern Illinois University
- Linda G. Herman (1974)**
Head Volleyball Coach
M.S., Illinois State University
- Lotus D. Hershberger (1970)**
Assistant Professor of Mathematics
Ph.D., The Florida State University
- Howard R. Hetzel (1962)**
Chairperson of the Department of
Biological Sciences, Professor of Zoology
Ph.D., The University of Washington
Leave of Absence, Second Semester,
1977-78 School Year
- Barbara Sherman Heyl (1975)**
Assistant Professor of Sociology
Ph.D., University of Illinois
- Charles R. Hicklin (1960)**
Professor of Education
Ed.D., University of Illinois
- Marylou E. Hicklin (1976)**
Instructor in Sociology
M.S., Illinois State University
- G. Alan Hickrod (1967)**
Professor of Educational Administration
Ed.D., Harvard University
- Lucy Jen Huang Hickrod (1967)**
Professor of Sociology
Ph.D., The University of Chicago
- Timothy N. Hicks (1977)**
Instructor in Finance
M.B.A., Illinois State University
- L. Dean Hiebert (1973)**
Assistant Professor of Economics
Ph.D., The University of Wisconsin
- Lynne P. Higgins (1963)**
Associate Professor of Health, Physical
Education, Recreation and Dance
Ph.D., The University of Iowa
- Janet C. Hildreth (1965)**
Faculty Associate in Special Education
M.S. in Ed., Illinois State University
- Philip E. Hillstrom (1969)**
Associate Professor of Music
D.M.A., University of Oregon
- Geoffrey A. Hirt (1977)**
Assistant Professor of Finance
Ph.D., University of Illinois
- Linda L. Hirt (1977)**
Assistant Professor of Music
M.M., Indiana University
- Jack A. Hobbs (1970)**
Associate Professor of Art
Ph.D., The University of Iowa
- Floyd B. Hoeltz (1977)**
Director of Residential Life and Part-time
Adjunct Associate Professor of Education
Ed.D., Oklahoma State University
- Peter Hoener (1977)**
Assistant Football Coach
B.S., Bradley University
- S. David Hoffman (1973)**
Counselor in the Student Counseling
Services
Ph.D., The Florida State University
- Robert A. Hogan (1963)**
Professor of Psychology
Ed.D., Case Western Reserve University
- Henry O. Hoium (1975)**
Lecturer in Finance
B.S., Northwestern University
- Lucille S. Holcomb (1968)**
Assistant Director of Financial Aid
M.A., Illinois State University
- Carol D. Holden (1977)**
Faculty Assistant in Art
Ph.D., University of Illinois
- David F. Holden (1971)**
Assistant Professor of English
Ph.D., The University of Kansas
- Kenneth A. Holder (1969)**
Professor of Art
M.F.A., School of the Art Institute of
Chicago
- Robert E. Holdridge (1965)**
Associate Professor of Information Sciences
Ed.D., Indiana University
- M. Paul Holsinger (1969)**
Professor of History
Ph.D., University of Denver
- Niles R. Holt (1968)**
Associate Professor of History
Ph.D., Yale University
- T. Melvin Holt (1973)**
Assistant Professor of Accounting
M.B.A., University of Oregon; C.P.A.
- Gerlof D. Homan (1968)**
Chairperson of the Department of
History, Professor of History
Ph.D., The University of Kansas
- Joseph C. Honan (1968)**
Associate Professor of Political Science
Ph.D., University of Missouri
- Herbert K. Honn (1975)**
Faculty Associate in the Metcalfe
Elementary School
M.S., Illinois State University
- Robin L. Hoover (1977)**
Faculty Associate in the Metcalfe
Elementary School
M.S. in Ed., Illinois State University
- Bruce E. Horne (1973)**
Faculty Associate in the Metcalfe
Elementary School
B.A., Western Illinois University
- James M. Horner (1975)**
Vice President and Provost of the
University, Professor of Mathematics
Ph.D., University of Alabama
- Alvin E. House (1975)**
Assistant Professor of Psychology
Ph.D., University of Tennessee
- James E. House (1966)**
Professor of Chemistry
Ph.D., University of Illinois
- James M. Howard (1966)**
Assistant Professor of Elementary
Education
M.A. in Ed., University of Kentucky
- Merle R. Howard (1966)**
Assistant Professor of Speech Pathology
and Audiology
M.S., Southern Illinois University
- Dianne S. Howe (1977)**
Instructor in Health, Physical Education,
Recreation and Dance
M.S., The University of Wisconsin
- Frederick B. Hoyt (1974)**
Assistant Professor of History
Ph.D., The University of Wisconsin
- Quinn L. Hrudka (1962)**
Associate Professor of Education
Ed.D., Indiana University
- Benjamin C. Hubbard (1961)**
University Professor of Educational
Administration
Ed.D., University of Alabama
- Barbara L. Huffman (1974)**
Director of the Turner Day Care Center,
Part-time Instructor in Home Economics
M.S. in Ed., Illinois State University
- Monique C. Huffman (1971)**
Instructor in French
M.A., Illinois State University
- Jon Hufnagle (1976)**
Assistant Professor of Speech Pathology
and Audiology
Ph.D., Wayne State University
- Clarissa H. Hug (1977)**
Lecturer in Special Education
M.A., Northwestern University
- Harry W. Huizinga (1967)**
Associate Professor of Parasitology
Ph.D., University of Connecticut
- Lloyd M. Hulit (1972)**
Associate Professor of Speech Pathology
and Audiology
Ph.D., The Ohio State University
- Ching-Yuan Hung (1974)**
Lecturer and Research Associate in Genetics
Ph.D., University of California at Davis
- Lynda F. Hungerford (1975)**
Instructor in English
Ph.D., Northwestern University
- Raymond H. Hunt (1965)**
Associate Professor of Chemistry
Ph.D., University of Illinois
- Robert W. Hunt (1969)**
Associate Professor of Political Science
Ph.D., Princeton University
- Timothy F. Hurtz (1973)**
Assistant Professor of Music
B.M., University of Southern California
- Mary K. Huser (1966)**
Director of Credit Instruction in the
College of Continuing Education and
Public Service, Professor of
Elementary Education
Ed.D., University of Illinois

- H. Dean Hustuft (1969)**
Assistant Professor of Information Sciences
Ed.D., Indiana University
- Barbara B. Hutchinson (1966)**
Associate Professor of Speech Pathology
and Audiology
Ph.D., University of Utah
- Jill M. Hutchison (1969)**
Assistant Professor of Health, Physical
Education, Recreation and Dance
M.S., Illinois State University
- Harriett S. Hutter (1969)**
Associate Professor of Spanish
Ph.D., University of Illinois
- Samuel Hutter (1955)**
Assistant Professor of Psychology
M.S., University of Illinois
- Lenore L. Hutton (1974)**
Instructor in Information Sciences
M.A., Illinois State University
- Virgil R. Hutton (1960)**
Associate Professor of English
Ph.D., The University of Michigan
- Thaddeus C. Ichniowski (1961)**
Professor of Chemistry
Ph.D., Purdue University
- E. Carmen Imel (1964)**
Associate Professor of Health, Physical
Education, Recreation and Dance
Ph.D., The University of Iowa
- Arnold J. Insel (1969)**
Associate Professor of Mathematics
Ph.D., University of California at Berkeley
- Eugene R. Irving (1969)**
Professor of Elementary Education
Ed.D., University of Illinois
- Ko Iwasaki (1974)**
Lecturer in Music
Toho School of Music (Japan); Juilliard
School of Music
- Eugene H. Jabker (1968)**
Director of Instructional Development
Ph.D., Washington University
- Irving Jacks (1968)**
Professor of Psychology
Ph.D., New York University
- Bryant H. Jackson (1960)**
Associate Director of Libraries, Associate
Professor of Library Science
M.S. in L.S., University of Southern
California
- Dale R. Jackson (1975)**
Assistant Professor of Educational
Administration
Ed.D., Northern Illinois University
- Donette D. Jackson (1966)**
Instructor in Business Education and
Administrative Services
M.A. in Ed., University of Kentucky
- Herbert W. Jackson (1977)**
Assistant Professor of Information Sciences
M.A., University of Illinois
- Martin C. Jackson (1972)**
Acting Director of Student Organizations,
Activities and Programs
M.M.Ed., Illinois State University
- Ned T. Jackson (1968)**
Lecturer in Special Education
M.A., Western Michigan University
- Ronald H. Jackson (1972)**
Associate Professor of Art
M.F.A., California College of Arts and
Crafts
- Ted R. Jackson (1960)**
Associate Professor of Information Sciences
Ph.D., The University of Wisconsin
- Vivian R. Jackson (1974)**
Faculty Associate in Education; Faculty
Associate in University High School
Ph.D., Northwestern University
- Eugene S. Jacobs (1962)**
Assistant Professor of Mathematics
A.M., University of South Dakota
- Janice I. Jacoby (1977)**
Head Badminton and Tennis Coach
B.S., Indiana State University
- Clyde H. James (1977)**
Assistant Professor of Industrial Technology
Ed.D., East Texas State University
- Jessie E. James (1977)**
Assistant Football Coach
M.S., Illinois State University
- Kenneth E. James (1962)**
Professor of Agricultural Education
Ed.D., University of Missouri
- Kathleen C. Jarrett (1972)**
Lecturer in Special Education
M.S. in Ed., Illinois State University
- Edward B. Jekls (1968)**
Professor of Anthropology
Ph.D., The University of Texas
- D. Reed Jensen (1966)**
Associate Professor of Physiology
Ph.D., Utah State University
- Richard A. Jensen (1975)**
Assistant Professor of Economics
B.A., The University of Kansas
- Kenneth E. Jesse (1967)**
Associate Professor of Physics
Ph.D., Arizona State University
- Lois R. Jett (1962)**
Assistant Professor of Home Economics
M.S., Southern Illinois University
- Sharon S. Jewell (1977)**
Staff Member in the Reading Study
Skills Center
M.Ed., Oregon State University
- Milford C. Jochums (1948)**
Professor of English
Ph.D., University of Illinois
- Eric S. Johnson (1968)**
Assistant Professor of Geography
Ph.D., The University of Kansas
- Gary G. Johnson (1975)**
Assistant Professor of Political Science
J.D., DePaul University
- James J. Johnson (1966)**
Professor of Psychology
Ph.D., Northwestern University
- Stephen C. Johnson (1976)**
Assistant Professor of Information Sciences
Ed.D., Indiana University
- John L. Johnston (1956)**
Professor of Industrial Technology
Ed.D., University of Missouri
- Anita F. Jones (1962)**
Assistant Professor of Elementary
Education (Metcalf Elementary School)
M.S. in Ed., Illinois State University
- Emily F. Jones (1974)**
Assistant Professor of Business Education
and Administrative Services
M.S. in Ed., Eastern Illinois University
- H. Twyman Jones (1967)**
Associate Professor of Education
Ed.D., University of Missouri
- Jeffery E. Jones (1977)**
Placement Counselor in the Placement
Service
B.S., Illinois State University
- Margaret L. Jones (1956)**
Professor of Health, Physical Education,
Recreation and Dance
Ph.D., The University of Wisconsin
- William W. Jones (1967)**
Faculty Associate in the Metcalf
Elementary School
Ed.D., University of Northern Colorado
- Wendell B. Joseph (1975)**
Assistant Professor of Marketing
M.B.A., University of Dayton
- Donald S. Kachur (1966)**
Associate Professor of Education
Ed.D., Indiana University
- Charles J. Kacmar (1977)**
Instructor in Mathematics
M.S., Illinois State University
- Jill D. Kagle (1977)**
Assistant Professor of Sociology
M.S.W., The University of Michigan
- Steven E. Kagle (1969)**
Associate Professor of English
Ph.D., The University of Michigan
- Frederick D. Kagy (1965)**
Professor of Industrial Technology
Ed.D., University of Wyoming
- Bruce T. Kaiser (1956)**
Director of the University Union and
Auditorium
B.S., Indiana University
- Alfred L. Kaisershot (1970)**
Professor of Business Education
and Administrative Services
Ed.D., The University of Nebraska
- Eileen G. Kanzler (1971)**
Faculty Associate in University High School
M.A., Hampton Institute
- Suraj P. Kapoor (1973)**
Assistant Professor of Information Sciences
Ph.D., Southern Illinois University
- Jacqueline O. Karch (1957)**
Professor of Home Economics
Ed.D., Washington University
- Ruth M. Kasa (1974)**
Coordinator of the Medical Technology
Program, Assistant Professor of Medical
Technology
M.A., Sangamon State University
- Alan J. Katz (1975)**
Assistant Professor of Genetics
Ph.D., The Ohio State University
- Patrick V. Kauffold (1974)**
Assistant Professor of Quantitative Methods
M.S., University of Illinois
- William O. Kauth (1968)**
Head Trainer, Associate Professor of
Health, Physical Education, Recreation
and Dance
Ph.D., University of Utah
- James G. Kehias (1977)**
Lecturer in Management
B.S. in Ed., Eastern Illinois University
- Daniele M. Kellams (1974)**
Assistant Professor of French (Department of
Foreign Languages and University High
School)
Ph.D., Rice University
- Mark R. Kellner (1976)**
Assistant Professor of Business Law
J.D., University of Illinois
- Benny B. Kemp (1963)**
Associate Professor of Music
M.M., Indiana University
- Kenneth C. Kennard (1968)**
Professor of Philosophy
Ph.D., Northwestern University
- Larry D. Kennedy (1962)**
Professor of Education
Ed.D., University of Illinois
- William N. Kennedy (1962)**
Assistant Professor of Classics
M.S. in Ed., Illinois State University
- Betty J. Keough (1952)**
Professor of Health, Physical Education,
Recreation and Dance
Ph.D., The University of Iowa
- Kerry A. Kerber (1973)**
Assistant Professor of Education
Ph.D., Wayne State University
- Robert J. Kerber (1974)**
Associate Professor of Management
D.B.A., Texas Tech University
- Susan T. Kern (1974)**
Assistant Professor of Home Economics
Ph.D., Purdue University
- Robert W. Kief (1970)**
Assistant Athletic Trainer, Instructor in
Health, Physical Education, Recreation
and Dance
M.S., Illinois State University
- Leo A. Kiesewetter (1977)**
Instructor in Finance
M.S. in Ed., Illinois State University
- Betty J. Kinser (1975)**
Instructor in Art
M.S., Illinois State University

- James G. Kirchner (1969)**
Assistant Professor of Geology
Ph.D., The University of Iowa
- John W. Kirk (1966)**
Professor of Theatre
Ph.D., University of Florida
- George C. Kiser (1974)**
Assistant Professor of Political Science
Ph.D., University of Massachusetts
- Nancy T. Kizer (1971)**
Instructor in English
M.A., Illinois State University
- James A. Knecht (1977)**
Assistant Professor of Political Science
J.D., University of Illinois
- Sandra J. Knight (1977)**
Instructor in Business Education and
Administrative Services
M.S., Illinois State University
- Keith P. Knoblock (1967)**
Associate Professor of Art
M.F.A., The Ohio State University
Leave of Absence for the School Year,
1977-78
- James V. Koch (1967)**
Chairperson of the Department of
Economics, Professor of Economics
Ph.D., Northwestern University
- Robert W. Koehler (1961)**
Professor of Health, Physical Education,
Recreation and Dance
Ed.D., University of Utah
- Herbert L. Koerselman (1974)**
Associate Professor of Music
D.M.A., The University of Iowa
- Frederick W. Kohlmeier (1964)**
Professor of History
Ph.D., University of Minnesota
- Helen B. Kohlmeier (1969)**
Instructor in English
M.S., Illinois State University
- Walter S. G. Kohn (1956)**
Professor of Political Science
Ph.D., New School for Social Research,
New York
- Catherine W. Konsky (1974)**
Assistant Professor of Information Sciences
Ph.D., The University of Iowa
- Joe W. Kraus (1966)**
Director of Libraries, Professor of
Library Science
Ph.D., University of Illinois
- William J. Kross (1975)**
Assistant Professor of Accounting
Ph.D., The University of Iowa; C.P.A.
- Paul W. Krueger (1974)**
Assistant Professor of Accounting
M.B.A., Northwestern University; C.P.A.
- Dean M. Krugman (1972)**
Assistant Professor of Marketing
Ph.D., University of Illinois
- Dennis V. Kruse (1970)**
Associate Professor of Business Law
J.D., The University of Iowa
- Anthony S. Kuharich (1977)**
Adjunct Lecturer in Corrections
M.S.I.R., Loyola University
- Brigitta J. Kuhn (1961)**
Professor of French
Ph.D., Sorbonne, University of Paris
- Norene Kurth (1953)**
Assistant Professor of Business Education
and Administrative Services
M.B.A., The University of Chicago
- Michael E. Kurz (1968)**
Professor of Chemistry
Ph.D., Case Institute of Technology
- William P. LaBounty (1977)**
Instructor in Industrial Technology
M.A., Illinois State University
- Donald E. LaCasse, Jr. (1973)**
Assistant Professor of Theatre
M.A., Michigan State University
Leave of Absence for the School Year,
1977-78
- Francis E. LaFave (1970)**
Counselor in the Student Counseling
Services
Ph.D., Indiana State University
- John B. Laing (1975)**
Assistant Professor of Philosophy
B.A., Lawrence University (Wisconsin)
- Lorrie J. Laing (1977)**
Faculty Assistant in Industrial Technology
B.S. in Ed., Illinois State University
- Douglas H. Lamb (1970)**
Director of Student Counseling Services,
Associate Professor of Psychology
Ph.D., The Florida State University
- Ralph L. Lane (1968)**
Professor of Theatre
Ph.D., Northwestern University
- Rowena V. Lane (1968)**
Instructor in Home Economics
M.S., Illinois State University
- Lillian C. Larson (1975)**
Assistant Professor of Speech Pathology
and Audiology
M.A., Western Michigan University
- Patricia A. Larson (1975)**
Faculty Associate in the Metcalf
Elementary School
A.B., Monmouth College
- Gurcharan S. Laumas (1973)**
Professor of Economics
Ph.D., Wayne State University
- Joseph L. Laurenti (1962)**
Professor of Spanish and Italian
Ph.D., University of Missouri
- Daniel J. LaVista (1976)**
Associate Professor of Theatre
Ph.D., Syracuse University
- Parker L. Lawlis (1965)**
Director of the Placement Service
M.S. in Ed., Illinois State University
- Marlyn C. Lawrentz (1973)**
Coordinator of Professional Practice in the
Office of the Associate Provost and
Part-time Assistant Professor of Health,
Physical Education, Recreation and
Dance
Ed.D., Illinois State University
- Ronald L. Laymon (1965)**
Acting Chairperson of the Department of
Curriculum and Instruction,
Professor of Educational Administration
Ed.D., Indiana University
- Barbara H. Lazerson (1969)**
Associate Professor of Elementary
Education
Ph.D., The University of Nebraska
- Dorothy E. Lee (1962)**
Chairperson of the Department of
Sociology-Anthropology, Associate
Professor of Sociology
Ph.D., The University of Iowa
- Henry C. Lee (1977)**
Director of Orientation Systems
Development in the Office of Admissions
and Records
M.S., Illinois State University
- Kenneth L. Leicht (1967)**
Associate Professor of Psychology
Ph.D., Northwestern University
- Danny J. Leifel (1977)**
Lecturer in Corrections
J.D., University of Illinois
- Paula R. Leifel (1975)**
Faculty Associate in the Metcalf
Elementary School
M.Ed., University of Illinois
- Elmer A. Lemke (1965)**
Professor of Psychology
Ph.D., The University of Wisconsin
- Wilbert M. Leonard II (1970)**
Associate Professor of Sociology
Ph.D., The Ohio State University
- Arthur Lewis (1972)**
Associate Professor of Music
Doc. of Mus., Indiana University
- Leave of Absence for the School Year,
1977-78
- Dixie L. Lewis (1977)**
Faculty Associate in University High School
M.S. in Ed., Illinois State University
- Franklin G. Lewis (1967)**
Professor of Education
Ed.D., North Texas State University
- Marjorie L. Lewis (1951)**
Associate Professor of Psychology
Ph.D., University of Illinois
- Mary F. Lewis (1977)**
Assistant Professor of Management
M.B.A., Northeast Louisiana University
- Anthony E. Luberta (1961)**
Professor of Mycology
Ph.D., University of Illinois
- William R. Linneman (1964)**
Professor of English
Ph.D., University of Illinois
- Francis A. Littler (1973)**
Instructor in English
M.A., Illinois State University
- Sheng-Hua D. Liu (1976)**
Lecturer in Chemistry
Ph.D., Illinois State University
- Robert D. Liverman (1969)**
Professor of Health, Physical Education,
Recreation and Dance
Ph.D., University of Illinois
- David L. Livers, Jr. (1962)**
Professor of Education
Ph.D., The University of Iowa
- Edward A. Livingston (1968)**
Associate Professor of Music
M.A., Western Michigan University
- Janice A. Livingston (1975)**
Assistant Professor of Medical Records
Administration
M.S., State University of New York
at Buffalo
- Wayne N. Lockwood, Jr. (1977)**
Associate Professor of Industrial Technology
Ph.D., University of Illinois
- Franzie L. Loepp (1970)**
Associate Professor of Industrial
Technology
Ed.D., University of Northern Colorado
- Ann M. LoMonaco (1975)**
Lecturer in Music
- Jerome J. LoMonaco (1975)**
Associate Professor of Music
- Jerry A. Lopes (1975)**
Hall Manager in the Office of Residential
Life
B.S., Illinois State University
- Michael A. Lorber (1970)**
Associate Professor of Education
Ph.D., Ohio University
- Ned B. Lovell (1977)**
Associate Professor of Educational
Administration
Ph.D., The Florida State University
- Patricia F. Luedtke (1977)**
Faculty Associate in University High School
B.S., University of Illinois
- Donald E. Luman (1977)**
Assistant Professor of Geography
M.A., Western Illinois University
- Virginia M. Lundeen (1977)**
Instructor in Educational Administration
M.S., Illinois State University
- Marvin L. Luther (1966)**
Associate Professor of Physics
Ph.D., Virginia Polytechnic Institute
and State University
- Kandace L. Lynn (1977)**
Faculty Associate in the Metcalf
Elementary School
M.S. in Ed., The University of Wisconsin
- Mary A. Lynn (1966)**
Coordinator for College of Education and
Part-time Assistant Professor of Educational
Administration
Ed.D., Illinois State University

- Kambiz E. Maani (1976)**
Assistant Professor of Finance
Ph.D., University of Illinois
- Laurene Mabry (1960)**
Director of Women's Intercollegiate Athletics, Professor of Health, Physical Education, Recreation and Dance
Ph.D., The University of Iowa
- David J. MacDonald (1971)**
Associate Professor of History
Ph.D., University of Minnesota
- Sharon S. MacDonald (1973)**
Instructor in History
M.A., University of Minnesota
- Michael Macesich (1962)**
Assistant Professor of Chemistry (University High School)
M.S., Indiana State University
- Kenton F. Machina (1973)**
Chairperson of the Department of Philosophy, Associate Professor of Philosophy
Ph.D., University of California at Los Angeles
- Ruth S. Machula (1977)**
Assistant Professor of Information Sciences
Ph.D., University of Illinois
- Normand W. Madore (1961)**
Professor of Elementary Education
Ed.D., Wayne State University
- David H. Madsen (1977)**
Assistant Professor of Quantitative Methods
Ph.D., Indiana State University
- Sister Margaret Mary Majewski (1977)**
Faculty Associate in Art
M.S., Illinois State University
- Thomas E. Malone (1969)**
Associate Professor of Art
M.S., The University of Wisconsin
- Jerry M. Manahan (1974)**
Instructor in Economics
M.S., Illinois State University
- Leon M. Manelis (1975)**
Assistant Professor of Psychology
Ph.D., Stanford University
- Darryl T. Manring (1962)**
Assistant Professor of Music (Metcalf Elementary School)
M.M., The University of Michigan
- Bruce M. Manzer (1974)**
Assistant Librarian, Associate Professor of Library Science
Ph.D., The University of Chicago
- Jack C. Mapes (1977)**
Faculty Associate in the Metcalf Elementary School
M.S., University of Utah
- Patricia J. Marcum (1976)**
Assistant Professor of Business Education and Administrative Services
Ph.D., University of Illinois
- Edward K. Marlow (1976)**
Assistant Professor of Management
Ph.D., University of Illinois
- John H. Marlow (1973)**
Lecturer in Art
Göttingen University (Germany), Willesden School of Art (London), Hornsey College of Art (London), University of London (England)
- Jeanne G. Marquis (1973)**
Faculty Associate in the Metcalf Elementary School
M.S. in Ed., Illinois State University
- Judith A. Martin (1968)**
Faculty Associate in University High School and Home Economics
M.S., Southern Illinois University
- Loren G. Martin (1976)**
Adjunct Professor of Physiology
Ph.D., Indiana University
- Thomas B. Martin (1962)**
Acting Chairperson of the Department of Finance and Law, Professor of Business Education and Administrative Services
Ed.D., Indiana University
- Olga A. Martinez (1966)**
Assistant Professor of Spanish
M.A., University of Cordoba, Argentina
- B. J. Marymont (1977)**
Coordinator in Academic Advisement
M.S., Southwest Missouri State University
- Marcia S. Marzec (1977)**
Instructor in English
M.A., Northern Illinois University
- Mark L. Massery (1977)**
Head Wrestling Coach
M.A., Northwestern University
- S. Scott Massin (1977)**
Assistant Professor of Law
J.D., University of Nebraska
- Franklin G. Matsler (1968)**
Executive Director of the Board of Regents, Professor of Higher Education
Ph.D., University of California at Berkeley
- Eleanor F. Matthews (1968)**
Assistant Librarian, Assistant Professor of Library Science
M.S., University of Illinois
- Michael J. Matthews (1975)**
News Editor in the Office of Public Affairs
M.A., University of Missouri
- Paul F. Mattingly (1962)**
Professor of Geography
Ph.D., The Pennsylvania State University
- Richard W. Mawdsley (1969)**
Associate Professor of Art
M.F.A., The University of Kansas
- Gary L. Max (1976)**
Instructor in Mathematics
M.S., Illinois State University
- Rebecca L. Mayhew (1976)**
Head Golf Coach
M.A., Central Michigan University
- Robert E. McAdam (1970)**
Director of the Office of Research Services and Grants, Professor of Health, Physical Education, Recreation and Dance
Ph.D., University of Illinois
- Patricia C. McNally (1966)**
Assistant Professor of Special Education
M.Ed., University of Illinois
- John F. McAteer (1968)**
Associate Director of the Office of Research Services and Grants
Ph.D., Southern Illinois University
- Bernard J. McCarney (1958)**
Professor of Economics
Ph.D., University of Pittsburgh
- Cynthia M. McCarter (1977)**
Hall Manager in the Office of Residential Life
B.S. in Ed., Illinois State University
- JoAnn McCarthy (1976)**
Director of Bilingual Vocational Project, Assistant Professor of Foreign Languages
Ph.D., The Florida State University
- John R. McCarthy (1974)**
Associate Professor of Educational Administration
Ph.D., The Florida State University
- Willard J. McCarthy (1955)**
Associate Professor of Industrial Technology
Ed.M., University of Illinois
- Jeoraldan S. McClain (1975)**
Assistant Professor of Art
Ph.D., The Ohio State University
- Robert H. McCollum (1977)**
Associate Professor of Health, Physical Education, Recreation and Dance
Ed.D., University of Oregon
- George F. McCoy, Jr. (1962)**
School Psychologist in the Metcalf Elementary School, Professor of Psychology
Ph.D., University of Illinois
- Derek A. McCracken (1969)**
Associate Professor of Biological Sciences
Ph.D., University of Toronto
- J H McGrath (1968)**
Professor of Educational Administration
Ph.D., The University of Iowa
- Janie M. McHood (1977)**
Faculty Associate in the Metcalf Elementary School
B.S. in Ed., Illinois State University
- Donald J. McHugh (1977)**
Assistant Professor of Business Education and Administrative Services
M.S. in Ed., Northern Illinois University
- Gerald W. McKean (1974)**
Instructor in Accounting
M.S., Illinois State University
- Raymond L. McKinty (1965)**
Director of Scheduling and Space Analysis, and Assistant Director of Summer Sessions
M.S., University of Illinois
- Elizabeth S. McMahan (1971)**
Associate Professor of English
Ph.D., University of Oregon
Half-time Leave of Absence, First Semester, 1977-78 School Year
- Carol F. McNulty (1973)**
Instructor in English
M.S. in Ed., Illinois State University
- Michael M. McReynolds (1977)**
Instructor in Law
J.D., University of Colorado
- Walter S. McVoy (1975)**
Assistant Professor of Mathematics
Ph.D., University of Illinois
- Walter B. Mead (1967)**
Associate Professor of Political Science
Ph.D., Duke University
- John V. Meador (1969)**
Associate Professor of Finance
Ph.D., The University of Iowa
- Edward S. Meckstroth (1974)**
Assistant Librarian, Assistant Professor of Library Science
M.A., The University of Chicago
- Patricia A. Meckstroth (1976)**
Assistant Librarian, Assistant Professor of Library Science
M.A., The University of Chicago
- Laurence W. Melka (1977)**
Instructor in Social Work
M.S.W., University of Illinois
- Ella S. Mentzer (1965)**
Assistant Professor of English
M.S. in Ed., Illinois State University
Leave of Absence, First Semester, 1977-78 School Year
- Robert L. Metcalf (1961)**
Director of University High School Athletics, Professor of Health, Physical Education, Recreation and Dance
P.E.D., Indiana University
- Ralph A. Meyering (1961)**
Professor of Education
Ph.D., The University of Iowa
- Christine A. Meyers (1971)**
Assistant Professor of Health, Physical Education, Recreation and Dance
M.F.A., The University of North Carolina
Leave of Absence for the School Year, 1977-78
- Gerald J. Michalec (1977)**
Assistant Professor of Philosophy
M.A., University of Pittsburgh
- E. Joan Miller (1962)**
Professor of Geography
Ph.D., The University of North Carolina
- Gabriel Miller (1977)**
Assistant Professor of English
Ph.D., Brown University
- Judith K. Miller (1973)**
Faculty Associate in the Metcalf Elementary School
M.S. in Ed., Illinois State University

- Kenneth E. Miller (1967)**
Associate Principal of the Metcalf Elementary School
Ph.D., Illinois State University
- Larry R. Miller (1971)**
Associate Professor of Industrial Technology
Ph.D., The Ohio State University
- Marcia A. Miller (1971)**
Adjunct Professor of Microbiology
Ph.D., The Ohio State University
- Margaret B. Miller (1975)**
Foreign Students' Advisor in International Studies
M.Ed., University of Illinois
- Marshall Miller, Jr. (1975)**
Head Golf Coach
B.S., Eastern Illinois University
- Raymond M. Miller (1977)**
Adjunct Professor of Soil Microbiology
Ph.D., Illinois State University
- Robert D. Miller (1977)**
Instructor in Finance
M.S., Illinois State University
- Wilma H. Miller (1968)**
Professor of Education
Ed.D., The University of Arizona
- Alan P. Milliren (1969)**
Associate Professor of Elementary Education
Ed.D., University of Illinois
- Frederick V. Mills (1968)**
Chairperson of the Department of Art, Professor of Art
Ed.D., Indiana University
- Ethel B. Mincey (1972)**
Assistant Professor of Elementary Education
Ph.D., University of Illinois
- Robert V. Mitchell (1968)**
Professor of Marketing
Ph.D., University of Illinois
- Orrin J. Mizer (1947)**
Associate Professor of Biological Sciences (Metcalf Elementary School)
Ph.D., The University of Iowa
- Edward L. Mockford (1960)**
Professor of Entomology
Ph.D., University of Illinois
- Coenraad L. Mohr (1970)**
Professor of Management
Ph.D., University of Minnesota
- LaVergne A. Monette (1973)**
Assistant Professor of Music
M.M., Indiana University
- Patricia K. Monoson (1976)**
Assistant Professor of Speech Pathology and Audiology
Ph.D., University of Illinois
- Alan D. Monroe (1970)**
Associate Professor of Political Science
Ph.D., Indiana University
Leave of Absence, First Semester, 1977-78 School Year
- Bradley V. Monroe (1977)**
Assistant Football Coach
M.A., Mankata State University
- Ronald Lee Montgomery (1977)**
Director of Social Work, Associate Professor of Social Work
M.A., Indiana University
- John F. Moomey (1973)**
Lecturer in Educational Administration
M.S. in Ed., Eastern Illinois University
- Willard J. Moonan (1969)**
Assistant Librarian, Assistant Professor of Library Science
M.A., University of Minnesota
- Barry E. Moore (1962)**
Professor of Art
Ed.D., University of Illinois
- Benjamin L. Moore (1973)**
Assistant Professor of Psychology
Ph.D., The Florida State University
- Beverley J. Moore (1967)**
Area Coordinator in the Office of Residential Life
M.S., Illinois State University
- Clarence L. Moore (1961)**
Professor of Animal Science
Ph.D., South Dakota State University
- Marianne W. Moran (1966)**
Instructor in English
M.S. in Ed., St. Cloud State College
- Kenneth O. Moreland (1964)**
Assistant Professor of Elementary Education
Adv. Cert. in Ed., University of Illinois
- William W. Morgan (1969)**
Associate Professor of English
Ph.D., The University of Tennessee
Leave of Absence for the School Year, 1977-78
- Lanny E. Morreau (1975)**
Assistant Professor of Special Education
Ph.D., University of Minnesota
- Charles E. Morris (1966)**
Secretary of the University, Associate Professor of Mathematics
Ph.D., University of Illinois
- Jeanne B. Morris (1967)**
Assistant Professor of Elementary Education
M.Ed., University of Illinois
- Robert E. Morris (1976)**
Faculty Associate in University High School and Industrial Technology
B.S., Western Illinois University
- Carl F. Morrison (1976)**
Assistant Professor of Theatre
M.F.A., University of Massachusetts
- Joyce L. Morton (1966)**
Assistant Professor of Health, Physical Education, Recreation and Dance
M.Ed., Colorado State University
- Robert L. Moulic (1977)**
Instructor in Applied Computer Science
M.S., University of Illinois
- Deborah D. Muirhead (1976)**
Instructor in Art
M.S., Illinois State University
- Samuel J. Mungo (1968)**
Assistant Professor of Education
Ph.D., New York University
- Johnny I. Murdock (1977)**
Assistant Professor of Information Science
M.A., California State University
- Bradley W. Murphy (1977)**
Lecturer in Corrections
J.D., University of Illinois
- Mark K. Murphy (1977)**
Instructor in Accounting
M.S., Illinois State University; C.P.A.
- Bryan L. Mydosh (1978)**
Faculty Assistant in Industrial Technology
B.A., William Penn College
- Joel P. Myers (1970)**
Professor of Art
M.F.A., Alfred University (New York)
- Anne H. Nadakavukaren (1977)**
Instructor in Biological Sciences
M.S., Illinois State University
- Mathew J. Nadakavukaren (1964)**
Professor of Botany and Electron Microscopy
Ph.D., Oregon State University
- Gurramkonda N. Naidu (1976)**
Assistant Professor of Finance
Ph.D., The University of Iowa
- Joseph M. Natale (1956)**
Associate Professor of Art
M.S., Indiana State Teachers College
- Mary J. Natale (1954)**
Assistant Professor of Elementary Education
M.S. in Ed., Illinois State University
- Thomas C. Neil (1976)**
Assistant Professor of Corrections
Ph.D., University of Florida
- Lawrence J. Nelson (1971)**
Instructor in Business Law
J.D., Washburn School of Law (Topeka)
- Paul R. Nelson (1976)**
Staff Physician in the University Health Service
M.D., University of Minnesota
- Robert S. Nelson (1970)**
Assistant Professor of Geology
Ph.D., The University of Iowa
- Thomas W. Nelson (1970)**
Assistant Professor of Education
M.A., California State University at Fresno
- Janice G. Neuleib (1970)**
Director of the Writing Center, Assistant Professor of English
Ph.D., University of Illinois
- Robert D. Neuleib (1970)**
Faculty Associate in University High School
M.S., Illinois State University
- Melvin E. Neville (1973)**
Assistant Professor of Microbiology
Ph.D., Iowa State University
- Marilyn P. Newby (1965)**
Assistant Professor of Art
M.S. in Ed., Southern Illinois University
- Richard L. Newby (1958)**
Assistant Professor of English
Ph.D., University of Colorado
- Stephen J. Newman (1972)**
Director of Intramurals in Campus Recreation
M.A., Michigan State University
- Eleanor D. Newmister (1970)**
Faculty Associate in the Metcalf Elementary School
M.S. in Ed., Illinois State University
- Christina E. Newton (1974)**
Assistant Professor of History
Ph.D., University of Illinois
- Anthony J. Nezol (1973)**
Assistant Professor of Special Education
Ed.D., University of Northern Colorado
- Martin K. Nickels (1974)**
Assistant Professor of Anthropology
Ph.D., The University of Kansas
- Edwin E. Niemi (1958)**
Professor of Art
M.S., The University of Wisconsin
- Norman E. Nierstheimer (1977)**
Instructor in Management
M.B.A., Illinois State University
- Douglas A. Nietzke (1963)**
Assistant Professor of English
Ph.D., University of Illinois
- Adele Nikolskaya (1978)**
Lecturer in Economics
Ph.D., Economics Institute of USSR State Planning Commission (Moscow)
- Ann E. Nolte (1973)**
Professor of Health Education
Ph.D., The Ohio State University
- Gerald L. Norris (1967)**
Acting Principal of University High School
Ed.D., Illinois State University
- John W. Nowak (1974)**
Assistant Professor of Quantitative Analysis
M.S., Southern Methodist University
- Frederick R. Noyes (1968)**
Assistant Professor of Special Education
M.S. in Ed., New York State University at Buffalo
- Phares G. O'Daffer (1968)**
Professor of Mathematics
Ph.D., University of Illinois
- Edward A. Ohlenkamp (1978)**
Assistant Professor of Industrial Technology
Ed.D., Northern Illinois University
- Carroll J. Oien (1966)**
Instructor in Accounting
M.S., Illinois State University

- Jane K. Oldfield (1977)**
Program Advisor of Student Activities in the Office of Student Organizations, Activities and Programs
M.Ed., University of Missouri-Columbia
- Barbara P. Olson (1972)**
Area Coordinator in the Office of Residential Life
M.S., Illinois State University
- Gerald A. Olson (1977)**
Instructor in Finance
M.S., Illinois State University
- James R. Olson (1977)**
Professor of Economics
Ph.D., University of Minnesota
- Paula M. Olson (1977)**
Instructor in Information Sciences
M.S., Syracuse University
- Patsy S. Oman (1974)**
Assistant Professor of Accounting
M.S., Illinois State University; C.P.A.
- Fred W. Ormer (1969)**
Assistant Professor of Music
M.S., University of Illinois
- Dennis W. Orr (1974)**
Area Coordinator in the Office of Residential Life
M.S. in Ed., Illinois State University
- Marcy D. Osborn (1977)**
Faculty Associate in the Metcalf Elementary School
B.S., MacMurray College
- Anthony L. Ostrosky (1973)**
Assistant Professor of Economics
Ph.D., University of Pittsburgh
- Albert D. Otto (1969)**
Chairperson of the Department of Mathematics, Professor of Mathematics
Ph.D., The University of Iowa
- Douglas W. Otto (1977)**
Instructor in Finance
M.S. in Ed., Illinois State University
- Randall C. Overton (1977)**
Assistant Professor of Psychology
Ph.D., Northwestern University
- Virginia S. Owen (1964)**
Associate Professor of Economics
Ph.D., University of Illinois
Leave of Absence, First Semester, 1977-78 School Year
- V. Arthur Owles (1973)**
Instructor in Applied Computer Sciences
M.S., Illinois State University
- George E. Palmer (1969)**
Assistant Librarian, Assistant Professor of Library Science
M.L.S., University of Pittsburgh
Leave of Absence, Second Semester, 1977-78 School Year
- Teresa M. Palmer (1969)**
Assistant Professor of Business Education and Administrative Services
M.B.A., The University of Iowa
Leave of Absence, Second Semester, 1977-78 School Year
- Mariejean C. Pankonin (1966)**
Assistant Professor of Health, Physical Education, Recreation and Dance
M.S., The University of North Carolina
- David J. Parent (1968)**
Professor of German
Ph.D., University of Cincinnati
- Theodore C. Parge (1977)**
Faculty Associate in University High School
B.M.Ed., Illinois State University
- Beulah M. Parker (1969)**
Assistant Professor of Biological Sciences
Ph.D., University of Illinois
- Kelvin M. Parker (1967)**
Professor of Spanish
Ph.D., The University of Chicago
- Louise O. Parker (1950)**
Assistant Professor in the Center for Allied Health Professions and Nurse in the Laboratory Schools
M.P.H., The University of Michigan
- Peter A. Parmantie (1961)**
Assistant Professor of English (University High School)
M.S. in Ed., Illinois State University
- James T. Parr (1970)**
Assistant Professor of Mathematics
Ph.D., Indiana University
- Phyllis G. Parr (1977)**
Assistant Professor of Mathematics
Ph.D., Indiana University
- Daniel C. Paschal (1974)**
Assistant Professor of Chemistry
Ph.D., Georgia Institute of Technology
- Joyce G. Paschall (1977)**
Faculty Associate in University High School
M.A., Illinois State University
- James E. Patterson (1957)**
Professor of Geography
Ph.D., University of Illinois
- Laura M. Patterson (1976)**
Professor of Management
Ph.D., The University of Texas
- Donald D. Pavey (1975)**
Instructor in Health, Physical Education, Recreation and Dance
M.S., Indiana State University
- G. Benjamin Paxton (1965)**
Manager of Radio Station WGLT, Assistant Professor of Information Sciences
M.A., The University of Tennessee
- Dean A. Payne (1977)**
Assistant Professor of Mathematics
Ph.D., The University of North Carolina
- Richard J. Payne (1975)**
Assistant Professor of Political Science
Ph.D., Howard University (Washington, D.C.)
- Sherman E. Peck (1975)**
Lecturer in Art
B.S., Illinois State University
- Rita L. Pell (1976)**
Advisor in Academic Advisement
M.A., Bradley University
- Charles W. Pendleton (1966)**
Associate Professor of Industrial Technology
Ed.D., University of Illinois
- Richard L. Penland (1977)**
Assistant Director of Residential Life
M.S., East Texas State University
- Barbara J. Perry (1972)**
Faculty Associate in Metcalf Elementary School
B.S., The University of Wisconsin-Stout
- Ralph M. Perry (1967)**
Associate Professor of French
Ph.D., University of Illinois
- Warren S. Perry (1955)**
Chairperson of the Department of Business Education and Administrative Services, Professor of Business Education and Administrative Services
Ed.D., University of Colorado
- Don L. Peterson (1964)**
Associate Professor of Music
Ph.D., The University of Wisconsin
- Eleanor A. Peterson (1976)**
Assistant Professor of Elementary Education
Ed.D., Wayne State University
- Paul C. Peterson (1977)**
Assistant Professor of Political Science
M.A., University of California at Riverside
- George A. Petrossian (1963)**
Associate Professor of French
Ph.D., The University of Michigan
- Boonma Peun-Ngarm (1978)**
Adjunct Professor of Health, Physical Education, Recreation and Dance
M.Ed., Chulalongkorn University (Thailand)
- Wolfgang Pfabel, Jr. (1961)**
Assistant Professor of German
M.A., Case Western Reserve University
- Randy L. Phillips (1977)**
Instructor in Mathematics
M.S., Illinois State University
- Judy M. Pierce (1974)**
Faculty Associate in the Metcalf Elementary School
M.S., Illinois State University
- Walter D. Pierce (1969)**
Professor of Education
Ed.D., University of Southern California
- L. Louese M. Pilch (1962)**
Assistant Professor of English (University High School)
M.A., University of Illinois
- Lawrence R. Pilon (1977)**
Faculty Assistant in Music
B.M.Ed., Illinois State University
- Gordon D. Pirrong (1976)**
Associate Professor of Accounting
D.B.A., Arizona State University
- Grace K. Pittman (1970)**
Advisor in Academic Advisement
A.M., University of Illinois
- Mark A. Plummer (1960)**
Professor of History
Ph.D., The University of Kansas
- Olger Pocs (1960)**
Assistant Professor of Sociology
M.A., University of Illinois
- W. Douglas Poe (1977)**
Professor of Economics
Ph.D., Indiana University
- Vernon C. Pohlmann (1955)**
Professor of Sociology
Ph.D., Washington University
- Jerry J. Polacek (1970)**
Assistant Professor of Health, Physical Education, Recreation and Dance
M.S., Illinois State University
- Harry E. Poling (1978)**
Assistant Professor of Political Science
LL.B., Nashville Y.M.C.A. Night Law School
- Elizabeth T. Pope (1973)**
Associate Librarian, Associate Professor of Library Science
M.S. in L.S., Drexel University
- Ronald R. Pope (1976)**
Assistant Professor of Political Science
Ph.D., University of Pennsylvania
- Charles B. Porter (1961)**
Associate Director of Institutional Research and Computer Operations, Professor of Industrial Technology
Ed.D., University of Illinois
- Roger E. Potter (1971)**
Associate Professor of Finance
Ph.D., St. Louis University
- David G. Poultney (1968)**
Professor of Music
Ph.D., The University of Michigan
- Michael J. Powers (1976)**
Director of the Applied Computer Science Program, Associate Professor of Mathematics
Ph.D., Indiana University
- Mario Prada (1977)**
Admissions Counselor in the Office of Admissions and Records
Specialist, Southern Illinois University
- Mildred S. Pratt (1969)**
Associate Professor of Social Work
Ph.D., University of Pittsburgh
- N. R. Presser (1977)**
Counselor in Student Counseling Services, Assistant Professor of Psychology
M.A., Long Island University
- Robert L. Preston (1974)**
Assistant Professor of Physiology
Ph.D., University of California
- Samuel T. Price (1968)**
Professor of Special Education
Ed.D., University of Pittsburgh
- Sharon P. Priester (1976)**
Instructor in Mathematics
M.A., Western Michigan University

- Calvin L. Pritner (1966)**
Chairperson of the Department of Theatre,
Professor of Theatre
Ph.D., University of Illinois
- Joseph J. Profiliet (1977)**
Lecturer in Industrial Technology
B.S., University of Illinois
- Daniel R. Prosser (1971)**
Director of the Reading Study Center
M.S. in Ed., Illinois State University
- W. Laurance Quane (1967)**
Professor of Industrial Technology
Ph.D., Michigan State University
- Carol A. Quinn (1977)**
Faculty Associate in the Metcalf
Elementary School
B.S., Western Michigan University
- Donald R. Quinter (1975)**
Instructor in Industrial Technology
M.S., Illinois State University
- Dorothy J. Quisenberry (1970)**
Associate Professor of Health, Physical
Education, Recreation and Dance
Ph.D., The Ohio State University
- Betty L. Rademacher (1972)**
Counselor in the Student Counseling
Services
M.S. in Ed., Southern Illinois University
- David D. Rademacher (1969)**
Faculty Associate in Elementary Education
M.Ed., University of Illinois
- Rati Ram (1977)**
Assistant Professor of Economics
Ph.D., The University of Chicago
- David D. Ramsey (1973)**
Associate Professor of Economics
Ph.D., University of Minnesota
- Gary C. Ramseyer (1965)**
Professor of Psychology
Ph.D., The University of Iowa
- Taimi M. Ranta (1959)**
Professor of English
Ph.D., University of Minnesota
Leave of Absence, Second Semester,
1977-78 School Year
- Lynn S. Rapin (1973)**
Counselor in the Student Counseling
Services, Assistant Professor of
Education
Ph.D., University of Illinois
- Phyllis S. Rauschenberger (1975)**
Faculty Associate in the Metcalf
Elementary School
B.S. in Ed., Illinois State University
- Jo Ann Rayfield (1966)**
Associate Professor of History
Ph.D., Vanderbilt University
- Jack E. Razor (1975)**
Dean of the College of Applied Science
and Technology, Professor of Health,
Physical Education, Recreation and
Dance
P.E.D., Indiana University
- Robert M. Reardon (1967)**
Adjunct Professor of Ophthalmology
M.D., The State University of New York
Downstate Medical Center at Brooklyn
- Marilynn R. Reasor (1975)**
Assistant Professor of Allied Health
Professions
M.Ed., University of Illinois
- Gordon M. Redding (1972)**
Assistant Professor of Psychology
Ph.D., The University of Wisconsin
- Glenn D. Reeder (1977)**
Assistant Professor of Psychology
Ph.D., University of California at Santa
Barbara
- Ruth M. Reeder (1974)**
Faculty Associate in the Metcalf
Elementary School
B.S. in Ed., Illinois State University
- Kirby A. Reese (1977)**
Instructor in Music
M.M., Illinois State University
- John T. Rehm (1969)**
Assistant Professor of Music
M.M., Indiana University
- Bradley W. Reid (1977)**
House Manager in the Office of Residential
Life
B.S., Illinois State University
- Carol R. Reitan (1977)**
Instructor in Sociology
M.A., DePaul University
- Earl A. Reitan (1954)**
Professor of History
Ph.D., University of Illinois
- Richard C. Reiter (1964)**
Professor of Chemistry
Ph.D., Purdue University
- Max R. Rennels (1968)**
Professor of Art
Ed.D., Indiana University
- Stanley W. Renner (1968)**
Associate Professor of English
Ph.D., The University of Iowa
- Joyce A. Rescho (1974)**
Instructor in Accounting
M.S., Illinois State University; C.P.A.
- Kenneth A. Retzer (1959)**
Professor of Mathematics
Ph.D., University of Illinois
- Evelyn J. Rex (1958)**
Professor of Special Education
Ph.D., George Peabody College for
Teachers
- Jonathan E. Reyman (1972)**
Associate Professor of Anthropology
Ph.D., Southern Illinois University
- Charles G. Reynard (1977)**
Assistant Professor of Political Science
J.D., Loyola University School of Law
- Brad H. Reynolds (1976)**
Coordinator in the Office of Clinical
Experiences in Teacher Education
B.S., Illinois State University
- Dent M. Rhodes (1965)**
Professor of Education
Ph.D., The Ohio State University
- John H. Rich (1964)**
Professor of Business Education and
Administrative Services
Ed.D., Indiana University
Leave of Absence, First Semester,
1977-78 School Year
- Charles A. Richard (1977)**
Assistant Football Coach
Specialist, Central Missouri State
College
- Doris M. Richards (1951)**
Associate Professor of Speech Pathology
and Audiology
Ph.D., Case Western Reserve University
- Arlan G. Richardson (1971)**
Associate Professor of Chemistry and
Biological Sciences
Ph.D., Oklahoma State University
- Brenda Y. Richardson (1977)**
Counselor in Student Counseling Services
Ph.D., Purdue University
- Carmen H. Richardson (1971)**
Chairperson of the Department of
English, Associate Professor of English
Ed.D., Oklahoma State University
- Mary A. Richmond (1962)**
Assistant Librarian, Assistant Professor
of Library Science (Metcalf Elementary
School)
M.S. in L.S., University of Illinois
- Wayne A. Riddle (1977)**
Assistant Professor of Physiology
Ph.D., The University of New Mexico
- Robert A. Riker (1976)**
Instructor in Finance
M.S., Illinois State University
- Pamela S. Ritch (1973)**
Assistant Professor of Theatre
M.A., The University of Washington
Leave of Absence for the School Year,
1977-78
- Robert K. Ritt (1971)**
Professor of Mathematics
Ph.D., Columbia University
- Stanley G. Rives (1958)**
Associate Provost, Dean of
Undergraduate Instruction, Professor
of Information Sciences
Ph.D., Northwestern University
- Frederick J. Roberts (1968)**
Assistant Professor of Political Science
Ph.D., Princeton University
- Hibbert R. Roberts (1968)**
Chairperson of the Department of Political
Science, Professor of Political Science
Ph.D., The University of Washington
Leave of Absence, Second Semester,
1977-78 School Year
- B. Kathleen Robinson (1975)**
Instructor in Speech Pathology and
Audiology
M.S., Illinois State University
- Don R. Robinson (1972)**
Associate Professor of Quantitative
Methods
D.B.A., Louisiana State University
- James L. Roderick (1956)**
Professor of Music
Ed.D., University of Illinois
- Jose A. Rodriguez (1961)**
Professor of Spanish
Ph.D., Universidad de la Habana, La
Habana, Cuba
- James E. Rogers (1974)**
Director of Outdoor Programs in
Campus Recreation
M.S. in Ed., Southern Illinois University
- Robert R. Romeo (1973)**
Assistant Professor of Theatre
M.S., Illinois State University
- Donald A. Rosen (1977)**
Counselor in Student Counseling Services
M.S., Iowa State University
- Stephen E. Rosenbaum (1971)**
Assistant Professor of Philosophy
Ph.D., University of Illinois
- Paul E. Rosene (1967)**
Associate Professor of Music
Ed.D., University of Illinois
- Robert L. Roussey (1967)**
Assistant Professor of French
A.M., University of Illinois
- Daryl E. Rowe (1977)**
Director of Environmental Health
Program, Associate Professor of
Environmental Health
Dr.P.H., The University of Michigan
- Paul H. Roy (1977)**
Assistant Professor of Microbiology
Ph.D., The Johns Hopkins University School
of Medicine
- Eugene R. Rozanski (1976)**
Associate Professor of Accounting
Ph.D., Louisiana State University
- Mary A. Rozum (1950)**
Assistant Professor of Elementary
Education (Metcalf Elementary School)
M.S. in Ed., University of Illinois
- Robert E. Rumery (1964)**
Associate Professor of Psychology
Ph.D., University of Illinois
- James D. Rundall (1976)**
Instructor in Accounting
M.S., Illinois State University
- Robert W. Rush, Jr. (1976)**
Faculty Assistant in Accounting
B.S. in Ed., Illinois State University
- Michael A. Russell (1976)**
Faculty Assistant in Industrial Technology
B.S. in Ed., Illinois State University
- L. Eloise Russell (1964)**
Faculty Assistant in Health, Physical
Education, Recreation and Dance
B.S., University of Alabama
- Terrence R. Russell (1977)**
Assistant Professor of Sociology
M.S., Southern Illinois University

- Heinz B. Russelmann (1976)**
Assistant Professor of Environmental Health
M.P.H., The University of Michigan
- Russell Rutter (1977)**
Assistant Professor of English
Ph.D., The University of Wisconsin
- Thomas L. Ruud (1962)**
Administrative Assistant to the Dean of the College of Fine Arts
M.S., The University of Wisconsin
- John G. Ryan (1977)**
Instructor in Management
M.Rel. Ed., Loyola University
- Bernard L. Ryder (1956)**
Professor of Chemistry
Ph.D., University of Illinois
- Howard H. Rye (1957)**
Professor of Music
Ed.D., Columbia University
- Creta D. Sabine (1975)**
Associate Professor of Educational Administration
Ed.D., Arizona State University
- Joe A. Sagebiel (1970)**
Professor of Animal Science
Ph.D., University of Missouri
- Salama A. Salama (1976)**
Lecturer in Finance and Insurance
Ph.D., The University of Wisconsin
- Jacqueline J. Salome (1971)**
Coordinator in the Office of Clinical Experiences in Teacher Education
M.S. in Ed., Illinois State University
- Richard A. Salome (1970)**
Professor of Art
Ed.D., Stanford University
- Karen F. Sams (1977)**
Faculty Associate in University High School
M.A., Illinois State University
- Herbert C. Sanders (1949)**
Associate Professor of Music
M.M., Northwestern University
- Dorothy D. Sands (1970)**
Assistant Professor of Accounting
M.S., Illinois State University; C.P.A.
- Theodore Sands (1950)**
Director of International Studies,
Professor of History
Ph.D., The University of Wisconsin
- William A. Savage (1970)**
University Affirmative Action Officer
M.S. in Ed., Illinois State University
- John F. Savini (1977)**
Research Associate in Archeology
M.A., Northern Illinois University
- Willie H. Scarborough (1975)**
Instructor in Special Education
M.S., The University of Chicago
- Edward L. Schapsmeier (1966)**
Professor of History
Ph.D., University of Southern California
- Jean Scharfenberg (1966)**
Professor of Theatre
Ph.D., The University of Wisconsin
- Maurice A. Scharton (1977)**
Instructor in English
M.A., Utah State University
- Michael D. Schermer (1974)**
Assistant to the Vice President and
Dean of Student Affairs
B.S., Illinois State University
- Thomas E. Schildgen (1977)**
Faculty Assistant in Industrial Technology
B.S., Illinois State University
- Arlene R. Schilt (1977)**
Instructor in Anthropology
M.A., Illinois State University
- Warren H. P. Schmakiel (1974)**
Director of Intercollegiate Athletics for Men
M.A., Columbia University
- Leonard W. Schmaltz (1974)**
Associate Professor of Psychology
Ph.D., The University of Michigan
- Janice S. Schmelz (1975)**
Instructor in Speech Pathology and Audiology
M.S., Illinois State University
- William T. Schmid (1971)**
Coordinator of Media Services
Ph.D., The Ohio State University
- Donald P. Schmidt (1971)**
Associate Professor of Psychology
Ph.D., The University of Washington
- Else A. Schmidt (1958)**
Professor of Geography
Ph.D., University of Munich, Germany
- Suzanne R. Schmidt (1974)**
Assistant Professor of Theatre
M.F.A., The University of Texas at Austin
- James A. Schmiechen (1975)**
Assistant Professor of History
Ph.D., University of Illinois
- Raymond L. Schmitt (1968)**
Professor of Sociology
Ph.D., The University of Iowa
- Theodore J. Schmitz (1972)**
Assistant Football Coach
M.S. in Ed., Eastern Illinois University
- Judith W. Schnaitter (1977)**
Counselor in Student Counseling Services
M.A., University of Minnesota
- Melvin E. Schnake (1977)**
Faculty Assistant in Management
B.S., Illinois College-Jacksonville
- Virginia Schnepf (1967)**
Professor of Elementary Education
Ed.D., University of Illinois
- Kathleen A. Schniedwind (1976)**
Athletic Trainer
M.S., Indiana University
- Max Schoenfeld (1971)**
Associate Professor of Music
B.M., Manhattan School of Music
- Isabelle G. Schreiber (1977)**
Assistant Professor of Social Work
M.S.W., Washington University
- Juergen M. Schroer (1969)**
Professor of Physics
Ph.D., Cornell University
- Meredith S. Schroer (1976)**
Instructor in English
M.A., Cornell University
- Joan G. Schuetz (1973)**
Lecturer in Music
University of Illinois; Hochschule Fuer Musik, Munich, Germany; Illinois State University
- Peter F. Schuetz (1963)**
Associate Professor of Music
M.M., University of Illinois
- Richard V. Schuler (1970)**
Acting Director of the Laboratory Schools
M.S. in Ed., Illinois State University
- Luella E. Schultz (1958)**
Assistant Professor of Elementary Education (Metcalf Elementary School)
A.M., University of Northern Colorado
- Gweneth B. Schwab (1976)**
Instructor in English
M.A., University of Missouri
- Fritz E. Schwalm (1970)**
Associate Professor of Biological Sciences
Ph.D., Philipps Universitaet Marburg (Germany)
Leave of Absence, First Semester, 1977-78 School Year
- Vanette M. Schwartz (1976)**
Assistant Librarian, Instructor in Library Science
A.M.L.S., The University of Michigan
- Christ F. Schwelle (1968)**
Director of Student Judicial Office and Executive Secretary of the Student Code Enforcement and Review Board
M.S. in Ed., Eastern Illinois University
- James B. Scott (1977)**
Instructor in Finance
B.S., Illinois State University
- Jimmy D. Scott (1957)**
Professor of Health, Physical Education, Recreation and Dance (University High School)
Ed.D., University of Missouri
- Peggy E. Scott (1974)**
Faculty Associate in University High School
B.A., Illinois State University
- Phebe M. Scott (1966)**
Professor of Health, Physical Education, Recreation and Dance
Ph.D., The University of Iowa
- James R. Scrimgeour (1971)**
Assistant Professor of English
Ph.D., University of Massachusetts
- James A. Seaman (1973)**
Coordinator in Academic Advisement
M. Div., The Hartford Seminary Foundation
- Thomas K. Searight (1959)**
Professor of Geology
Ph.D., University of Illinois
- Myra L. Secoy (1977)**
Assistant Professor of Library Science,
Assistant Librarian
M.S., University of Illinois
- Thomas G. Secoy (1968)**
Professor of Accounting
Ph.D., University of Illinois; C.P.A.
- Carol Seddon (1977)**
Assistant Professor of Medical Record Administration
M.S., Oregon State University; R.R.A.
- Margarette A. Seibel (1972)**
Assistant Librarian, Assistant Professor of Library Science
M.A.L.S., Rosary College
- Peter J. Seiler (1975)**
Instructor in Special Education
M.A., DePaul University
- William L. Selke (1977)**
Assistant Professor of Corrections
M.S.W., Indiana State University
- William D. Semlak (1974)**
Director of the Honors Program, and Assistant Professor of Information Sciences
Ph.D., University of Minnesota
- Victoria C. Senti (1977)**
Instructor in Special Education
M.S., Illinois State University
- Dorothy M. Sessions (1977)**
Instructor in Special Education
M.Ed., University of Illinois
- Kyle C. Sessions (1967)**
Associate Professor of History
Ph.D., The Ohio State University
- M. Jean Sessions (1976)**
Instructor in Theatre
M.A., Illinois State University
- David A. Severino (1977)**
Faculty Assistant in Finance
B.S., Illinois State University
- Charles H. Shankle (1974)**
Instructor in Business Administration
M.S., East Texas State University
- John R. Sharpham (1972)**
Director, Teaching-Learning Center,
Professor of Theatre
Ph.D., University of Colorado
- Katherine V. Shaw (1968)**
Assistant Librarian, Assistant Professor of Library Science (University High School)
Ed.S., Western Michigan University
- Karen G. Shelly (1969)**
Staff Writer in News Service in the Office of Public Affairs
M.S., Illinois State University
- Michael B. Shelly (1965)**
Assistant Professor of Information Sciences
Ph.D., Southern Illinois University

- George M. Sherling (1977)**
Instructor in Applied Computer Science
M.S., Sloan School of Management at
Massachusetts Institute of Technology
- Charles E. Sherman (1969)**
Associate Professor of Education
Ed.D., Northern Illinois University
- Kathleen A. Sherman (1969)**
Assistant Librarian, Instructor in
Library Science
B.L.S., Pratt Institute
- Susan E. Sherman (1977)**
Faculty Associate in University High School
B.S. in Ed., Illinois State University
- Suzanne K. Sherman (1971)**
Instructor in Information Sciences
M.S., Illinois State University
- William C. Sherman (1977)**
Assistant Director of Financial Aid
M.S., Illinois State University
- Thomas W. Shilgalis (1967)**
Assistant Professor of Mathematics
Ph.D., University of Illinois
- Tai Saeng Shin (1968)**
Associate Professor of Finance
Ph.D., University of Illinois
- Edmund N. Shlens (1974)**
Assistant Professor of Finance
Ph.D., University of Illinois
- Murray M. Short (1964)**
Assistant Professor of Education
(Metcalf Elementary School)
M.A., George Peabody College for Teachers
- David L. Shrader (1974)**
Chairperson of the Department of Music,
Professor of Music
D.M.A., University of Oregon
- Sol Shulman (1969)**
Professor of Chemistry
Ph.D., North Dakota State University
- Stanley B. Shuman (1960)**
Assistant Vice President for Physical
Planning and Operations, Professor of
Geography
Ph.D., University of Illinois
- Herbert C. Sieg (1966)**
Associate Professor of Accounting
M.A.S., University of Illinois; C.P.A.
- Leonard E. Sigler (1974)**
Lecturer in Agricultural Mechanics
Ed.D., University of Illinois
- L. Moody Simms, Jr. (1967)**
Professor of History
Ph.D., University of Virginia
- Herman J. Simon (1973)**
Assistant Director of Admissions
M.S. in Ed., Illinois State University
- Lois A. Skillrud (1975)**
Faculty Associate in University High
School
M.S., University of Illinois
- Steven J. Skinner (1976)**
Instructor in Marketing
M.S., Illinois State University
- Arnold A. Slan (1967)**
Professor of Elementary Education
Ed.D., Indiana University
Leave of Absence, First Semester,
1977-78 School Year
- Becky J. Smith (1976)**
Assistant Professor of Health, Physical
Education, Recreation and Dance
Ph.D., University of Illinois
- Gwen K. Smith (1946)**
Professor of Health, Physical Education,
Recreation and Dance
Ph.D., The University of Iowa
- Janice L. Smith (1977)**
Hall/House Manager in the Office of
Residential Life
M.S. in Ed., Illinois State University
- Kathryn W. Smith (1974)**
Associate Professor of Home Economics
Ed.D., University of Illinois
- Nelson Smith (1946)**
Director of Photographic Services,
Assistant Professor of Education
M.S. in Ed., Illinois State University
- Ralph L. Smith (1959)**
Professor of Information Sciences
Ph.D., The University of Wisconsin
- Randall W. Smith (1975)**
Instructor in Speech Pathology and
Audiology
M.S., University of Southern Mississippi
- Richard L. Smith (1976)**
Faculty Assistant in Health, Physical
Education, Recreation and Dance
M.S., University of Illinois
- Robert R. Smith (1966)**
Assistant Professor of Marketing
M.S., Illinois State University
- Tracy A. Smith (1977)**
Instructor in Law
J.D., The John Marshall Law School
- Wesley D. Smith (1977)**
Assistant Professor of Chemistry
Ph.D., Brigham Young University
- A. Gene Smithson (1971)**
Head Basketball Coach
M.S., Indiana State University
- Judith J. Smithson (1967)**
Coordinator of Services for the
Handicapped and Part-time Lecturer in
Special Education
M.S., Southern Illinois University
- Walter J. Smoski (1975)**
Instructor in Speech Pathology and
Audiology
M.S., Southern Illinois University
- Alan R. Sodetz (1972)**
Assistant Professor of Psychology
Ph.D., University of Missouri
- Robert Sokan (1969)**
Assistant Librarian, Assistant Professor
of Library Science
M.S., University of Illinois
- Elke M. Solomon (1977)**
Visiting Lecturer in Art
M.A., The University of Michigan
- Stephen F. Sontum (1976)**
Assistant Professor of Chemistry
B.A., California Lutheran College
- Linda M. Sorrells (1965)**
Assistant Professor of Health, Physical
Education, Recreation and Dance
M.S., University of Illinois
- Frank W. Spanbauer (1977)**
Director of Non-Credit Programs in the
College of Continuing Education and
Public Service
Ph.D., Walden University (Florida)
- Robert D. Speiser (1974)**
Associate Professor of Mathematics
Ph.D., Cornell University
- Lawrence E. Spence (1970)**
Assistant Professor of Mathematics
Ph.D., Michigan State University
Leave of Absence for the School Year,
1977-78
- Charles T. Spencer (1972)**
Director of the Center for Allied Health
Professions, Associate Professor of
Medical Technology
M.S., Wayne State University
- David E. Spencer (1975)**
Assistant Professor of Economics
Ph.D., Texas A & M University
Leave of Absence for the School Year,
1977-78
- Charles T. Sproat (1974)**
Hall Manager in the Office of Residential
Life
M.A., Illinois State University
- Paul D. Stamm (1976)**
Instructor in Information Sciences
M.A., Ball State University
- Sharon E. Stanford (1975)**
Faculty Assistant in Accounting
B.S., Illinois State University; C.P.A.
- James D. Stark (1975)**
Instructor in Management
M.S. in Ed., Southern Illinois University
- Diana K. Starzinger (1974)**
Assistant Professor of Special Education
M.A., Southeast Missouri State
University
- Keith E. Stearns (1973)**
Professor of Special Education
Ed.D., Indiana University
- J. Russell Steele (1947)**
Assistant Director of Alumni Services,
Assistant Professor of Health, Physical
Education, Recreation and Dance
M.S. in Ed., Illinois State University
- Sheri L. Steffen (1977)**
Head Gymnastics Coach, Faculty
Assistant in Health, Physical
Education, Recreation and Dance
M.Ed., University of South Alabama
- E. Robert Steffl (1966)**
Associate Professor of Art
M.S., Southern Illinois University
Leave of Absence, First Semester,
1977-78 School Year
- C. Louis Steinburg (1959)**
Associate Professor of Art
M.S. in Ed., Southern Illinois University
- Gary R. Steiner (1974)**
Lecturer in Art
B.F.A., The University of Kansas
- F. Ann Stemm (1976)**
Assistant Professor of Home Economics
M.S., University of Minnesota
- Charles L. Stephens (1977)**
State Director, Illinois State Olympics
M.A. in Ed., University of South Florida
- Daniel R. Stephens (1974)**
Assistant Professor of Music
M.M., Michigan State University
- Karen J. Stephens (1976)**
Head Teacher, Turner Day Care Center
B.S., Illinois State University
- Myrna L. Stephens (1968)**
Assistant Professor of Health, Physical
Education, Recreation and Dance
M.S. in P.E., The University of North
Carolina
Leave of Absence, Second Semester,
1977-78 School Year
- S. Joann Stephens (1964)**
Assistant Professor of Special Education
M.S. in Spec. Educ., The University
of Tennessee
- Herold S. Stern (1971)**
Associate Professor of Education
Ph.D., New York University
- Gerald R. Stevenson (1977)**
Associate Professor of Chemistry
Ph.D., Texas A & M University
- Randolph A. Stewart (1972)**
Assistant Librarian, Instructor in
Library Science
M.S. in L.S., University of Southern
California
- Richard A. Stivers (1970)**
Associate Professor of Sociology
Ph.D., Southern Illinois University
Leave of Absence, First Semester,
1977-78 School Year
- Alma Stoddard (1961)**
Assistant Professor of Health, Physical
Education, Recreation and Dance
M.P.E., The University of Nebraska
- Charles F. Stokes, Jr. (1974)**
Assistant Professor of Music
M.M., Indiana University
- Kenneth H. Strand (1970)**
Research Consultant in the Office of
Institutional Research and Computer
Operations, Assistant Professor of
Health, Physical Education,
Recreation and Dance
Ph.D., The University of Iowa

- Richard Streckfuss (1977)**
Lecturer in Information Science
B.S. in Ed., Illinois State University
- C. Edward Streeter (1967)**
Dean of the College of Arts and Sciences,
Professor of Information Sciences
Ph.D., Michigan State University
- Brenda M. Stringer (1977)**
Instructor in Theatre
M.A., Illinois State University
- Earl G. Stringer (1973)**
Assistant Professor of Theatre
M.F.A., Michigan State University
- Susan A. Stroyan (1977)**
Instructor in Information Sciences
M.S., University of Illinois
- David R. Struckhoff (1978)**
Assistant Professor of Corrections
Ph.D., Southern Illinois University
- Hugh W. Stumbo (1976)**
Instructor in Art
Ph.D., The Ohio State University
- Phyllis E. Stumbo (1976)**
Assistant Professor of Home Economics
M.S., The Ohio State University; R.D.
- Michael D. Sublett (1970)**
Assistant Professor of Geography
Ph.D., The University of Chicago
- Gary R. Sudano (1970)**
Associate Professor of Music
Ed.D., University of Illinois
- Frank Suggs, Jr. (1969)**
Assistant Professor of Music
M.Ed., The University of Arizona
- Jurgen P. Suhr (1970)**
Assistant Professor of Art
M.A., Illinois State University
- William H. Sullivan (1972)**
Lecturer in Educational Administration
M.S. in Ed., Western Illinois University
- Michael R. Summers (1970)**
Assistant Professor of Quantitative
Methods
M.B.A., University of Illinois
- Michael W. Surma (1976)**
Faculty Associate in University High School
B.S. in Ed., Illinois State University
- Robert D. Sutherland (1964)**
Professor of English
Ph.D., The University of Iowa
- Arthur W. Sweet (1969)**
Assistant Professor of Art
M.S., The Florida State University
- Mark E. Swerdlik (1977)**
Assistant Professor of Psychology
Ph.D., Michigan State University
- Jeffrey A. Szmulewicz (1975)**
Instructor in Information Sciences
M.A., Michigan State University
- Joe E. Talkington (1962)**
Chairperson of the Department of Home
Economics and Industrial Technology,
Professor of Industrial Technology
Ed.D., University of Northern Colorado
- J. Curtis Tannahill (1963)**
Director of Speech and Hearing Clinic,
Associate Professor of Speech Pathology
and Audiology
Ph.D., The University of Kansas
- John J. Taraska (1975)**
Adjunct Professor of Allied Health
Professions
M.D., Jefferson Medical College
- Rodger L. Tarr (1969)**
Associate Professor of English
Ph.D., University of South Carolina
- Patrick Tarrant (1963)**
Professor of French
Ed.D., Columbia University
- Fred A. Taylor (1974)**
Associate Professor of Elementary
Education
Ph.D., Purdue University
- Kevin G. Taylor (1976)**
Student Program Advisor in Student
Organizations, Activities, and Programs
M.Ed., Slippery Rock State College
- Lana M. Taylor (1977)**
Instructor in Animal Science
M.S., University of Illinois
- Susan R. Taylor (1977)**
Instructor in Biological Sciences
M.S., Illinois State University
- Tse-Hao Tcheng (1969)**
Coordinator of Analytical Studies in the
Office of Institutional Research and
Computer Operations, Associate
Professor of Information Sciences
Ph.D., The University of Iowa
- Tse-Kia Tcheng (1968)**
Director of Academic Computing Services,
Director of Measurement and
Evaluation Service, and Associate
Professor of Health, Physical
Education, Recreation, and Dance
Ph.D., The University of Iowa
- David R. Tell (1974)**
Assistant Professor of Art
M.F.A., Alfred University
- Marsha P. Tell (1977)**
Faculty Associate in the Metcalf
Elementary School
M.Ed., Florida Atlantic University
- Donald F. Tompleton (1950)**
Assistant to the Dean of Undergraduate
Instruction, Assistant Professor of
English
M.A., The University of Iowa
- Bonnie B. Terry (1977)**
Faculty Associate in the Metcalf
Elementary School
B.S. in Ed., Illinois State University
- Walker R. Terry (1976)**
Hall Manager in the Office of Residential
Life
M.Ed., University of Illinois
- Melvin E. Thake (1977)**
Faculty Associate in the Metcalf
Elementary School
M.S., Illinois State University
- Manhar P. Thakore (1968)**
Assistant Librarian, Assistant Professor
of Library Science
M.S., University of Illinois
- Harry A. Thiel (1976)**
General Manager of the Vidette,
Lecturer in Information Sciences
B.S., Southern Illinois University
- Virginia C. Tholen (1977)**
Lecturer in Medical Records Administration
M.S., University of Illinois
- Clayton F. Thomas (1964)**
Chairperson of the Department of
Educational Administration, Professor
of Educational Administration
Ph.D., The University of Iowa
- Shailer Thomas (1969)**
Assistant Provost and Director of
Summer Sessions, Professor of Sociology
Ph.D., Michigan State University
- Nancy B. Thornley (1967)**
Assistant Professor of Speech Pathology
and Audiology (Metcalf Elementary
School)
M.S., Illinois State University
- Luanne Thompson (1969)**
Faculty Associate in University High School
M.Ed., University of Arkansas
- Rebecca E. Thompson (1972)**
Assistant Librarian, Instructor in
Library Science
M.S., University of Illinois
- Carol A. Thornton (1974)**
Assistant Professor of Mathematics
Ph.D., Indiana University
- Denis L. Thornton (1977)**
Instructor in Political Science
M.A., Ohio University
- Ray I. Throckmorton (1972)**
Associate Director of the University Union
and Auditorium
B.S., Northern Illinois University
Linda L. Timm (1972)
Acting Student Judicial Counselor in
the Student Judicial Office
B.S., Illinois State University
- Wendell B. Tinsley (1970)**
Associate Professor of Art
M.F.A., The University of Iowa
- Kirby Todd (1977)**
Lecturer in Health, Physical Education,
Recreation and Dance
M.A., Columbia University
- Leon W. Toepke (1972)**
Instructor in Accounting
M.S., Illinois State University; C.P.A.
- William L. Tolone (1970)**
Associate Professor of Sociology
Ph.D., The University of Tennessee
- Jim N. Tone (1963)**
Professor of Physiology and Anatomy
Ph.D., Iowa State University
- Thomas R. Toperzer (1972)**
Director of University Galleries, Assistant
Professor of Art
M.F.A., The University of Nebraska
- George A. Torres (1976)**
Instructor in Education
M.S. in Ed., Southern Illinois University
- Margaret M. Torrey (1972)**
Director of Health Service
M.D., Northwestern University
- Christine A. Tosh (1975)**
Faculty Associate in the Metcalf
Elementary School
M.S. in Ed., Illinois State University
- Naomi W. Townner (1965)**
Professor of Art
M.F.A., Rochester Institute of Technology
- Robert B. Townsend (1967)**
Assistant Librarian, Assistant Professor
of Library Science
M.S., University of Illinois
- John J. Traficante (1976)**
Assistant Professor of Theatre
M.F.A., University of Miami
- Roy C. Treadway (1977)**
Associate Professor of Sociology
Ph.D., The University of Michigan
- Margaret A. Tripp (1975)**
Hall Manager in the Office of Residential
Life
M.S. in Ed., Illinois State University
- Philip R. Tripp (1977)**
Hall Manager in the Office of Residential
Life
M.S. in Ed., Illinois State University
- Anthony E. Trojanowski (1977)**
Assistant Professor of Mathematics
Ph.D., University of California at San Diego
- Linda G. Troman (1973)**
Instructor in Business Education and
Administrative Services
M.S. in Ed., Illinois State University
- John E. Trotter (1956)**
Chairperson of the Department of
Geography-Geology, Professor of
Geography
Ph.D., The University of Chicago
- Wayne O. Truez (1957)**
Professor of Health, Physical Education,
Recreation and Dance
Ed.D., University of Utah
- Joseph C. Tsang (1968)**
Associate Professor of Chemistry and
Biological Sciences
Ph.D., The University of Oklahoma
- Benny F. Tucker (1977)**
Assistant Professor of Mathematics
Ph.D., University of Illinois
- Michael T. Turner (1975)**
Adjunct Associate Professor of Plant
and Soil Science
Ph.D., Iowa State University

- Ralph T. Turner (1976)**
Assistant Professor of Political Science
J.D., University of Illinois
- Robert T. Tussing (1968)**
Professor of Accounting
Ph.D., The University of Texas; C.P.A.
- George E. Tuttle (1976)**
Associate Professor of Information Sciences
Ph.D., University of Illinois
- Mary L. Tyner (1977)**
Faculty Associate in University High School
B.S. in Ed., Illinois State University
- Ronald L. Ulmer (1975)**
Instructor in Economics
M.S., Illinois State University
- Charlotte M. Upton (1958)**
Assistant Professor of Home Economics
M.S. in Ed., Illinois State University
- Ann S. Utterback (1977)**
Instructor in Information Sciences
M.A., Memphis State University
- Arden L. Vance (1949)**
Assistant Professor of Music
M.M., Northwestern University
- Charles L. Vanden Eynden (1969)**
Professor of Mathematics
Ph.D., University of Oregon
Leave of Absence for the School Year, 1977-78
- Edna R. Vanderbeck (1966)**
Assistant Professor of Health, Physical Education, Recreation and Dance
Ph.D., University of Oregon
- Elmer E. Van Egmond (1976)**
Director of the Professional Development Center
Ph.D., The University of Michigan
- Kathryn M. Van Ness (1977)**
Advisor in Academic Advisement
B.A., The University of Wisconsin
- Carson H. Varner (1975)**
Assistant Professor of Business Law
J.D., The University of Oklahoma
- Iris I. Varner (1976)**
Assistant Professor of Business Education and Administrative Services
Ph.D., The University of Oklahoma
- Clara S. Vaughn (1977)**
Visiting Assistant Professor of Psychology
Ph.D., The Ohio State University
- Vijaya K. Vemuri (1977)**
Instructor in Finance
M.B.A., Golden State University
- Wilbur R. Venerable (1963)**
Director of Admissions and Records,
Associate Professor of Education
Ph.D., Southern Illinois University
- Melanie S. Verbout (1975)**
Faculty Associate in the Metcalf Elementary School
B.S. in Ed., Illinois State University
- Jared Verner (1977)**
Adjunct Professor of Ecology
Ph.D., The University of Washington
- Joel G. Verner (1967)**
Professor of Political Science
Ph.D., The University of Kansas
- Margaret E. Verner (1977)**
Head Swimming Coach,
M.S., Eastern Illinois University
- Walter M. Vernon (1963)**
Professor of Psychology
Ph.D., Washington University
- Michael H. Vinitzky (1972)**
Assistant Professor of Psychology
Ph.D., University of Minnesota
- Julia N. Visor (1976)**
Assistant Director of Residential Life for Programming
M.A., Ohio University
- Ross E. Vogel (1972)**
Assistant to the Director of Measurement and Evaluation Service, and Part-time Instructor in Accounting
M.S. in Ed., Illinois State University
- Frank C. Vybiral (1971)**
Associate Professor of Theatre
M.F.A., The University of Texas
Leave of Absence, Second Semester, 1977-78 School Year
- Margaret C. Waimon (1962)**
Faculty Associate in Psychology
B.S., City College of New York
- Morton D. Waimon (1961)**
Professor of Education
Ed.D., Columbia University
- James E. Walker (1977)**
Chairperson of the Department of Special Education, Professor of Special Education
Ed.D., The Pennsylvania State University
- Lawrence D. Walker (1969)**
Associate Professor of History
Ph.D., University of California at Berkeley
- Linda K. Walker (1974)**
Faculty Associate in University High School
M.S., Illinois State University
- Roslyn A. Walker-Oni (1975)**
Museums Administrator, and Part-time Assistant Professor of Art
M.A., Indiana University
- Joseph E. Wallace (1966)**
Assistant Professor of Education
B.S., Loyola University
- Cheryl K. Wallgren (1977)**
Assistant Professor of Mathematics
Ph.D., University of Missouri-Columbia
- Robert H. Walsh (1964)**
Associate Professor of Sociology
Ph.D., The University of Iowa
- Sharon D. Walsh (1975)**
Tutor in the High Potential Students Program, Instructor in English
M.A., University of Illinois
- Anne Beveney Walter (1963)**
Assistant Professor of Art
M.S., Illinois State University
- William D. Walters (1969)**
Assistant Professor of Geography
Ph.D., Indiana University
- Peter Y. Wang (1972)**
Assistant Professor of Health, Physical Education, Recreation and Dance
Ph.D., The University of New Mexico
- Jack A. Ward (1965)**
Professor of Ethology
Ph.D., University of Illinois
Leave of Absence, Second Semester, 1977-78 School Year
- John R. Ward (1977)**
Instructor in Finance
M.A., The Ohio State University
- M. Jo Ann Warfield (1969)**
Faculty Associate in the Metcalf Elementary School
M.A., University of Illinois
- Walter H. Warfield (1977)**
Instructor in Educational Administration
M.S., Southern Illinois University
- George P. Warren (1960)**
Assistant Professor of Physics (University High School)
M.S., University of Illinois
- William L. Warren (1969)**
Administrator of the University Health Service
University of Maryland, University of Kansas City, Roosevelt University
- Larrye C. Washington (1976)**
Hall Manager in the Office of Residential Life
M.S. in Ed., Illinois State University
- Lloyd I. Watkins (1977)**
President of the University,
Professor of Information Sciences
Ph.D., The University of Wisconsin-Madison
- Ralph L. Weatherwax (1977)**
Assistant Professor of Mathematics
Ph.D. Purdue University
- Charles S. Weaver (1976)**
Assistant Professor of Mathematics
Ph.D., University of Minnesota
- Joyce I. Webb (1975)**
Admissions Counselor in the Office of Admissions and Records
B.S., Illinois State University
- Darlene H. Weber (1968)**
Assistant Professor of Health Education
Director of Health and Safety, Indiana University
- David F. Weber (1967)**
Associate Professor of Genetics
Ph.D., Indiana University
- Wayne H. Weber (1975)**
TV-10 News Director
M.S., Illinois State University
- Gary D. Weede (1970)**
Associate Professor of Industrial Technology
Ph.D., Iowa State University
- Leslie A. Weedon (1978)**
Instructor in Industrial Technology
M.S., Illinois State University
- Carol L. Weidmann (1975)**
Faculty Associate in the Metcalf Elementary School
M.A., Western Illinois University
- Robert D. Weigel (1959)**
Professor of Vertebrate Zoology and Paleontology
Ph.D., University of Florida
- Alan I. Weintraub (1975)**
Instructor in Business Law
J.D., University of Illinois
- Milton E. Weisbecker (1963)**
Director of Alumni Services and Development, Professor of Health, Physical Education, Recreation and Dance
Ed.D., Syracuse University
- Irwin H. Weiser (1977)**
Assistant Professor of English
Ph.D., Indiana University
- Alan W. Weith (1965)**
Head Gymnastics Coach, Assistant Professor of Health, Physical Education, Recreation and Dance
M.S. in Ed., Eastern Illinois University
- Paul R. Welch (1978)**
Assistant Professor of Political Science
LL.B., Washington University School of Law
- Roger B. Weller (1965)**
Assistant Professor of Health, Physical Education, Recreation and Dance
Ph.D., University of Illinois
- J. June Wennerstrom (1969)**
Assistant Professor of Health, Physical Education, Recreation and Dance
M.S. in Ed., Illinois State University
- Luceille G. Werner (1971)**
Assistant Professor of English
M.S., Illinois State University
- John T. Werthwein (1977)**
Faculty Assistant in Economics
B.S., Illinois State University
- John H. Wesle (1952)**
Assistant Professor of Art
M.A., Case Western Reserve University
- Douglas X. West (1975)**
Chairperson of the Department of Chemistry, Professor of Inorganic Chemistry
Ph.D., Washington State University
- Barbara K. Westwater (1977)**
Faculty Associate in the Metcalf Elementary School
B.S. in Ed., Illinois State University
- Patricia M. Whitehart (1966)**
Assistant Professor of Music
S.M.M., Union Theological Seminary
- Rick C. Whitacre (1977)**
Assistant Professor of Agricultural Economics
M.S., University of Illinois

- Richard O. Whitcomb (1974)**
Chairperson of the Department of Foreign Languages, Professor of German
Ph.D., Stanford University
- Charles A. White (1957)**
Dean of the Graduate School, Professor of Information Sciences
Ph.D., The University of Wisconsin
- Patricia O. White (1966)**
Assistant to the Dean of the College of Education and Part-time Assistant Professor of Education
Ph.D., Illinois State University
- Ray L. White (1968)**
Professor of English
Ph.D., University of Arkansas
- Richard L. White (1977)**
Assistant Professor of Educational Administration
Ed.D., Illinois State University
- Robert S. White (1976)**
Instructor in Education
M.A., University of Illinois
- John R. Whitlow (1977)**
Instructor in Finance
M.S., Illinois State University
- James V. Whitman (1972)**
Head Tennis Coach
M.S., Illinois State University
- Peter Whitmer (1969)**
Assistant Director of Development
University of Illinois, Illinois Wesleyan University
- David T. Wiant (1974)**
Director of Personnel
B.S., Western Michigan University
- Gregg Wiemer (1976)**
House Manager in the Office of Residential Life
M.S. in Ed., Illinois State University
- James L. Wiese (1977)**
Instructor in Speech Pathology and Audiology
M.S., Southern Illinois University
- Leah M. Wilcox (1972)**
Assistant Professor of English
Ed.D., University of Southern California
- Valerie J. Wilford (1969)**
Assistant Professor of Information Sciences
M.S., University of Illinois
- Linda S. Wilkins (1977)**
Faculty Associate in the Metcalf Elementary School
M.S. in Ed., Illinois State University
- Dennis B. Willan (1977)**
Faculty Associate in the Metcalf Elementary School
B.S. in Ed., Eastern Illinois University
- David B. Williams (1976)**
Associate Professor of Music
Ph.D., The University of Washington
- Jeral R. Williams (1970)**
Associate Professor of Psychology
Ph.D., The University of Iowa
Leave of Absence, First Semester, 1977-78 School Year
- Macon L. Williams (1968)**
Chairperson of the Department of Psychology, Associate Professor of Psychology
Ph.D., The Ohio State University
- Wenmouth Williams, Jr. (1974)**
Assistant Professor of Information Sciences
Ph.D., The Florida State University
- Edwin R. Willis (1962)**
Professor of Entomology
Ph.D., The Ohio State University
- Janet H. Wills (1970)**
Faculty Associate in the Metcalf Elementary School
M.S., Illinois State University
- Barbara A. Wilmot (1974)**
Instructor in Mathematics
M.S., Illinois State University
- Beverly D. Wilson (1963)**
Professor of Health, Physical Education, Recreation and Dance
Ph.D., The Ohio State University
- Thomas D. Wilson (1961)**
Associate Professor of Political Science
Ph.D., University of Illinois
- Raymond V. Wiman (1973)**
Professor of Information Sciences
Ed.D., The University of Nebraska
- Michael W. Winchell (1974)**
Assistant Professor of Business Education and Administrative Services
Ed.D., Illinois State University
- Thomas L. Wingler (1977)**
Instructor in Economics
M.S., Illinois State University
- Paul R. Winn (1977)**
Professor of Marketing
Ph.D., University of Illinois
- Larry E. Winterholter (1968)**
Assistant Professor of Health, Physical Education, Recreation and Dance
M.S., Illinois State University
- Vermell Wise (1948)**
Assistant Professor of English
Professional Diploma, Columbia University
- Forrest G. Wisely (1973)**
Assistant Professor of Information Sciences
Ed.D., University of Southern California
- Emory E. Wiseman (1963)**
Associate Professor of Industrial Technology
Ed.D., University of Illinois
- Mary P. Witherow (1975)**
Faculty Associate in University High School
M.A., Illinois State University
- W. Charles Witte (1976)**
Instructor in Law
J.D., University of Baltimore
- Harvey S. Woods (1957)**
Professor of Agricultural Economics
Ph.D., University of Illinois
- Betty Woodson (1957)**
Assistant Professor of Special Education (Metcalf Elementary School)
M.Ed., Wayne State University
- William C. Woodson (1968)**
Associate Professor of English
Ph.D., University of Pennsylvania
- Donna Jo Workman (1959)**
Professor of Health, Physical Education, Recreation and Dance
Ph.D., The University of Iowa
- Donald H. Wort (1977)**
Assistant Professor of Finance
Ph.D., Michigan State University
- Harold J. Wray (1973)**
Associate Professor of History
Ph.D., University of Hawaii
- Ralph D. Wray (1970)**
Professor of Business Education and Administrative Services
Ed.D., Indiana University
- David W. Wright (1969)**
Associate Professor of Information Sciences
Ph.D., Wayne State University
- Walker D. Wyman, Jr. (1971)**
Assistant Professor of History
Ph.D., The University of Washington
- Martin A. Young (1968)**
Chairperson of the Department of Speech Pathology and Audiology, Professor of Speech Pathology and Audiology
Ph.D., The University of Iowa
- Nancy F. Young (1976)**
Counselor in the Student Counseling Services
M.A., Bradley University
- Robert D. Young (1967)**
Professor of Physics
Ph.D., Purdue University
- W. Perry Young (1962)**
Assistant Professor of Industrial Technology (University High School)
M.A., Western Kentucky State College
- Richard C. Youngs (1964)**
Associate Professor of Elementary Education
Ph.D., Michigan State University
- Harvey G. Zeidenstein (1965)**
Professor of Political Science
Ph.D., New York University
- William D. Zeller (1963)**
Professor of Education
Ph.D., Michigan State University
- Robert A. Zerwekh (1977)**
Assistant Professor of Philosophy
M.A., University of Illinois
- Mary Zey-Ferrell (1972)**
Associate Professor of Sociology
Ph.D., Louisiana State University
Leave of absence for the School Year, 1977-78
- Barbara Z. Ziegler (1975)**
Assistant Director of Financial Aid
Illinois Wesleyan University, Illinois State University
- Thomas C. Zins (1974)**
Assistant Professor of Political Science
Ph.D., Purdue University
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